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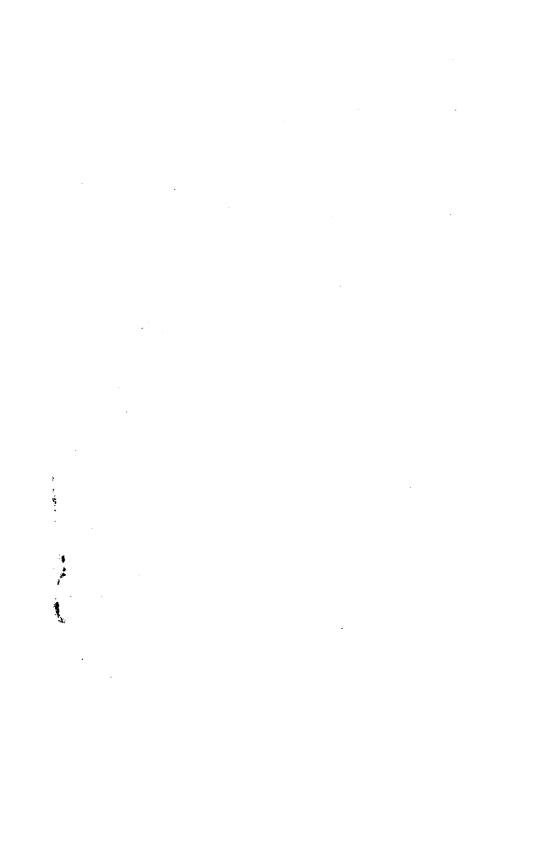
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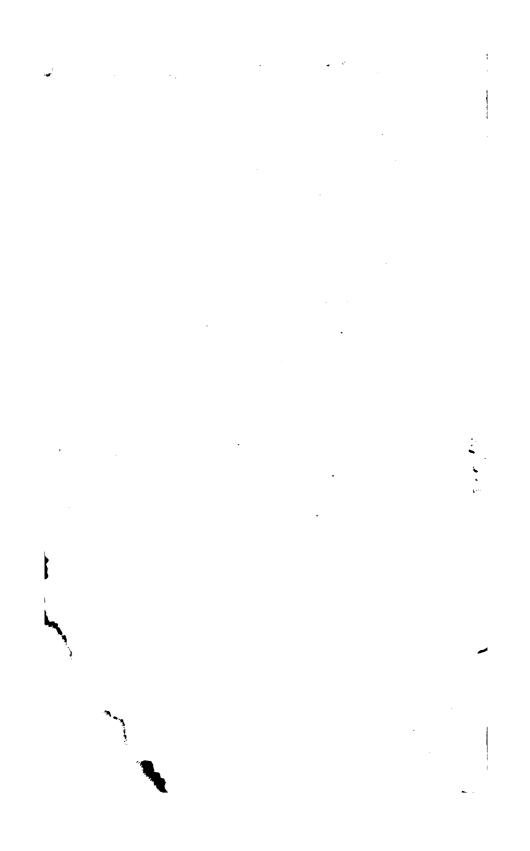
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FIRST ANNUAL REPORT

OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN,

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES AND DEATHS,

For the Year Ending April 5th, 1868.



BY AUTHORITY.

LANSING:

JOHN A. KERR & CO., PRINTERS TO THE STATE. 1868.



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TILDEN FOUNDATIONS.
1898.

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PREFACE.

STATE DEPARTMENT, MICHIGAN.

SECRETARY'S OFFICE, Lansing, Dec. 31st, 1868.

To His Excellency the Governor of Michigan:

Pursuant to the requirements of Act No. 194, S. L. 1867, I have the honor herewith to submit my report of births, marriages and deaths for the year ending April 5th, 1868.

This forms the first report from this office under the law, and although its tables and deductions are not so extended as I could have desired, owing to the late day of receiving many of the returns from County Clerks, and the entire absence of returns from several counties; yet it is believed that it will afford some information of interest and practical value, and is, perhaps, as complete as could reasonably be expected in the first year of the practical operation of the law.

It can hardly be expected, in the introduction of a law of this nature, requiring the co-operation of so many persons in its execution, widely separated and often living in sparsely populated districts, that no errors should occur, or that the law should always so commend itself to those required to perform the duties it imposes, as to command at first their hearty co-operation. In view, however, of the limited time the law has been on trial, and the difficulties incident to its thorough execution, it is hoped that the results thus far attained will not be found unsatisfactory, but rather tend to justify the wisdom of such a law.

Immediately upon the passage of the law, the necessary blank forms were prepared with great care, for the original returns to the County Clerks. With these, were sent to the Clerks, for distribution by them, printed instructions to Supervisors and Assessors, to assist them in making complete returns of births and deaths. A pamphlet was also compiled, from the laws of the State, relative to the duties of persons solemnizing marriages, which has been furnished to Clergymen and Justices of the Peace, through the offices of the County Clerks, and also from this office direct, on application.

A record each, of births, marriages and deaths, was also prepared and furnished each County Clerk.

I am happy to state, that with few exceptions, I have received the cordial and ready assistance of the County Clerks, in the execution of the law. Upon these officers, in a great measure, depend the accuracy and consequent value of the annual reports and original records.

Should the County Clerks fail to exact complete returns from those required to make them, the benefits intended to be gained will not be secured.

The work of examining and recording the orig-

inal returns, and making transcripts of records for this department, requires much time and care, for which they should receive a just compensation. A majority of the Supervisors and Assessors are believed to have promptly and thoroughly performed the duties required of them. It is hoped that the present Legislature will make some certain provision for paying them for this additional work.

While I take pleasure in testifying to the faith-fulness with which most of these officers have performed their duties, I am sorry to say that some have entirely neglected them. Notwithstanding the repeated and urgent efforts which have been made through letters and circulars from this department, five counties have wholly failed to make returns, and from several only partial returns have been received. In some cases this has resulted from inadvertence on the part of Supervisors and Assessors; while in others, it is due to their intentional neglect, because no compensation was provided by law for the work.

Several instances have been reported of the refusal of Clergymen to make return of marriages, and of their deliberately violating the statute, after its provisions had been brought to their knowledge. It is gratifying to know that these are very rare and exceptional cases, and that the performance of this duty, so important to the parties married, and their prospective offspring, is seldom neglected by those solemnizing marriages. Should the complaint be repeated, steps will be taken to convince the offending parties that their plea of the "higher law," will hardly avail in the courts as against our statute law. It is believed that by granting compensation, either per capita or per diem, to those officers who are required to make return of births and deaths to the County Clerks, sufficient to induce a careful and perfect canvass, which must necessarily be to them a work of patient inquiry and investigation, much of the difficulty in procuring complete and valuable returns will be remedied.

No legal measures have been taken to secure delinquent returns, as it is believed that legislation as to minor points of the law, and the time necessary to familiarize the people with it, will in most cases, correct the evils complained of, more readily than recourse to the courts.

No returns have been received from the city of Detroit. It is claimed by the Common Council that the law was not intended to apply to that city, or if it were, that compliance with it is impossible, as the assessment is made there from October to April. It is hardly to be supposed that the Legislature intended to except from the provisions of the law, the city of Detroit, from which it is anticipated our most valuable returns, in a statistical point of view, will be received. I suggest such legislation as shall remove the difficulty alluded to.

I would also recommend an amendment of the law, so that the returns shall include the year preceding the first day of April, instead of the first Monday of April. This would simplify the work PREFACE. vii

of this office, and relieve us from fractional parts of a month in our calculations.

I would also recommend that the first day of September be fixed as the date for making returns by County Clerks to the Secretary of State. This will give ample time to the County Clerks to make their returns, while the additional time is needed in this department for preparing the annual report, before the close of the year, which is found to be a work of much time and labor.

I take this occasion to acknowledge my obligation to the Hon. Oliver Warner, Secretary of State of Massachusetts, for reports, forms of blanks, and information kindly furnished me, and from which I derived much aid in giving practical effect to the law.

My thanks are also due to Dr. I. H. Bartholomew, of this city, late one of the Vice Presidents of the State Medical Society, who has rendered valuable assistance in the nomenclature and classification of diseases; and, also, to S. H. Row, Esq., Deputy Secretary of State, to whom the details of the work have been entrusted.

Very respectfully,
OLIVER L. SPAULDING,
Secretary of State.

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FIRST REGISTRATION REPORT.

FOR THE YEAR ENDING APRIL 5th, 1868.

In presenting the following tables and observations, constituting the First Annual Report relating to the registration and return of births, marriages and deaths, it may be well to consider some of the advantages which a perfect system of registration may give to the citizens of our State.

The prominence which Michigan occupies to-day, her progress in nearly every branch of industry, the excellence of her school system, her advancement in the arts and sciences, mechanics and agriculture, can be directly traced to judicious legislative enactments.

Few more important laws are contained in our statutes, than that requiring the registration of births, marriages and deaths.

In a legal point of view, it is of the greatest importance that our citizens should be able to produce record evidence of births, marriages and deaths, in cases where it is necessary to establish proofs of relationship in the inheritance and transmission of estates.

The necessity of a perfect system of registration has been fully demonstrated within the past few years, by the frequent application of parties claiming pensions and dues from the General Government, arising from the loss of relatives in the late war of the rebellion, for the necessary record proofs, which in too many cases could not be furnished, on account of the culpable carelessness of those whose duty it was to make and preserve them.

In nearly all cases requiring proofs of relationship, a certified copy of the record established by law, is more available than the production of testimony from living witnesses.

In a sanitary point of view, too much importance cannot be attached to the great benefits which will accrue from the information to be derived from statistics on death and its causes. As years intervene, comparative tables can be arranged, showing the increase or decrease of diseases which cause the highest rate of mortality, showing also, the influence of locality, season, sex and occupation, upon the duration of human life. The accumulation of such data, cannot fail to suggest the most valuable truths. Much that now is hidden, or at least the work of surmise and imperfect observation, regarding vital statistics in our State, can thus be demonstrated with comparative certainty.

The statistics thus obtained, will lead to a more perfect knowledge of the causes which influence, and suggest remedies for the prevention of diseases incident to our State—averting calamities which might otherwise seem inevitable—thereby best answering the obligations of a true philanthropy.

The success of similar reports, for generations, in many of the countries of Europe, in Massachusetts, extending through a series of twenty-four years, and in other of our States for less periods, leads to the inference that our own law, if thoroughly enforced, may lead to the successful results contemplated by its enactment.

The whole number of names registered during the year, ending April 5, 1868, as returned by the various County Clerks, was thirty-seven thousand and two hundred (37,200.)

These are divided as follows: Nineteen thousand five hundred and forty-four (19,544) children were born alive,* of which ten thousand one hundred and seventy-seven (10,177) were males, and nine thousand three hundred and sixty-seven (9,367) were females.

^{*} See stillborn, page 7.

Five thousand seven hundred and three (5,703) couples—or eleven thousand four hundred and six (11,406) persons—were married. Of this number, three thousand two hundred and ninety-three (3,293) were American marriages; six hundred and ninety-five (695) were marriages of foreign parties exclusively; six hundred and ninety-two (692) were marriages in which one party was a foreigner; and ten hundred and twenty-three (1,023) marriages were reported, with the nativity of the parties unknown.

The whole number of deaths was six thousand two hundred and fifty, (6,250,) of which three thousand three hundred and thirty-one (3,331) were males, and two thousand nine hundred and nineteen (2,919) were females.

DELINQUENT.

In the observations and tables of this report, it must be borne in mind, that no returns of either births, marriages or deaths, have been received from the county of Saginaw, containing two large cities, or from the counties of Chippewa, Keweenaw, Mackinac and Manitou. No returns of births or deaths were received from the populous city of Detroit, and no returns of marriages from the entire county of Wayne. The births and deaths which occurred in the 1st and 2d districts of Owosso city, and in the following townships, were not returned: Perry, Woodhull and Hazleton, Shiawassee county; LaCroix, Emmet county; Marquette and Negaunee, Marquette county; Gun Plains, Lee, Otsego, Pine Plains and Saugatuck, Allegan county; Beaver and Arenac, Bay county; and Rockland and Carp Lake, Ontonagon county.

Returns from all these delinquent counties, cities and townships, would materially change the foregoing totals, and proportionately affect all the computations that follow.

The natural increase of population, or the excess of births over deaths, for the year, is thirteen thousand two hundred and ninety-four. (13,294.)

Assuming that those portions of the State, from which returns have been received, contain a population* of 1,000,000, one living child was born to every 51.17 persons. One person in every 87.67 was married. One person in every 160 died.

^{*}A perfect census of our State, would, without doubt, show a population in excess of 1,100,000. The State census of 1864, is universally conceded to be very imperfect, and as eight years have intervened since the compilation of the U. S. census, many interesting tables, which might otherwise have been given, with a true data of the population of our State as a basis, are unfortunately wanting in this report.

BIRTHS.

The average number of births within several specified periods of time, is as follows:

Year-19,544.

Month-1,628.67.

Week-375.08.

Day-53.55.

The percentage of males is 52.075, and of females, 47.925. The proportion of males to females in the various counties, is shown in Table I of Births.

The greatest number of births in any one month, occurred in March, 1868, during which 2,043 children were born, while the month least prolific, was May, 1867, which produced but 1,372, or 671 less than March.

The following table exhibits the

BIRTHS IN QUARTERLY RATES.

		The state of the s	
Quarte	er endin	g June, 1867,	4,330
**	**	September, 1867,	4,887
**	46	December, 1867,	4,717
**	44	March, 1868,	5,501
Not at	tated,		109
		NATIVITY.	
The	percent	tage of the nativities of children born, is	
Ameri	can,		58.28
			26.27
Ameri	can fath	er and foreign mother,	4.50
Foreig	n father	r and American mother,	7.15
Unkno	wn,		3.80
The	matinit.	of the mounts of children boun during th	

The nativity of the parents of children born during the year, is shown at length in Table II.

RACES.

The number of children born of African and Indian descent, is shown below by counties, in which the births occurred:

COTTATION	7	AFR	ICAN.	Indian.			
COUNTIES.	Total.	Male.	Fem.	Male.	Fem.		
Allegan,	2	1	1				
Berrien,	16	10	6	4.44	2000		
Calhoun,	10	4	6				
Cass,	38	20	18				
Emmet,	5		****	5			
Genesee,	1	4	1				
Houghton,	19			9	10		
Ingham,	4	1	3				
Kalamazoo,	4		4				
Kent,	1		1				
Lapeer,	2		2				
Lenawee,	5	4	1				
Macomb,	1	1					
Manistee,	1	1					
Mecosta,	1		1				
Monroe,	2		2				
Montcalm,	2		2				
Oakland,	3	2	1				
St. Clair,	1		1				
St. Joseph,	1	1					
Van Buren,	6	1	5				
Washtenaw,	13	6	7				
Wayne,	3	. 2	. 1				
Total,	141	54	63	14	10		

PLURAL BIRTHS.

Triplets.—But one case of triplets was reported to this office. That occurred in the city of Marshall, Calhoun county, of Irish parentage, and was composed of 2 males and 1 female.

Twins.—There were 226 cases of twin births reported, producing 452 children, of which 223 were males, and 229 were females. The proportion of twin children to those of single birth is as 1 to 431.

Illegitimate.—There were 121 illegitimate children born, of which 66 were males and 55 females; making 1 illegitimate child to 160½ of legitimate birth, or a little over six-tenths of one per cent. of all the births in the State.

Still-born.—The number of still-births reported was 27. These were erroneously reported in the returns of deaths, and do not enter into the tables of this report, except in the classification of diseases.

TABLE I.

BIRTHS, by Counties—Proportion of Males to Females.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Females,
Allegan,	50.89	49.61	102
Alpena,	48.57	51.48	93
Antrim,	42.31	57.69	78
Barry,	50.22	49.78	101
Bay,	52.88	47.67	109
Berrien,	51.12	48.88	105
Branch,	49.87	50.68	97
Calhoun,	51.88	48.12	108
Cass,	52.88	47.17	119
Cheboygan,	53.85	46.15	117
Chippewa, (not returned,)			
Clinton,	48.07	51.93	93
Delta,	70.83	29.17	243
Katon,	54.15	45.85	118
Emmet,	55.77	44.23	126
Genesce,	50.40	49.60	102
Grand Traverse,	51.43	48.57	108
Gratiot,	48.86	51.14	95
Hillsdale,	50.44	49.56	102
Houghton,	52.7	47.3	111
Huron,	48.03	51.97	92
Ingham,	52.85	47.15	112
Ionia,	52.89	47.11	112
Iosco,	87.04	62.96	59
Isabella,	46.53	58.47	87
Jackson,	54.66	45.84	121
Kalamazoo,	58.83	46.17	117
Kent,	52.05	47.65	109
Keweenaw, (not returned,)	 		
Lapeer,	52.58	47.48	111

TABLE 'I.—BIRTHS,—CONTINUED.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Females.
Leelanaw, (not returned,)			• • • • • • • • • • • • • • • • • • • •
Lenawee,	51.62	48.38	107
Livingston,	54.11	45.89	118
Mackinac, (not returned,)	ļ	 	
Macomb,	52.41	47.59	110
Manistee,	52.67	47.88	117
Manitou, (not returned,)	 		.
Marquette,	57.02	42.98	188
Mason,	- 54.55	45.45	220
Mecosta,	60.36	89.64	150
Menominee,	40.91	59.09	69
Midland,	40.28	59.72	68
Monroe,	51.9	48.1	108
Montcalm,	51.92	48.08	108
Muskegon,	50.79	49.21	100
Newaygo,	46.91	58.06	88
Oakland,	51.6	48.4	107
Oceana,	58.83	46.67	114
Ontonagon,	48.24	56.76	76
Ottawa,	58.97	46.08	117
Saginaw, (not returned,)	 		
Sanilac,	52.85	47.65	110
Shiawassee,	56.06	48.94	197
St. Clair,	54.25	45.75	118
St. Joseph,	54.00	46.00	117
Tuscola	52.84	47.66	110
Van Buren,	58.11	46.89	118
Washtenaw,	52.97	47.08	118
Wayne,	50.29	49.71	101
State,	52.08	47.92	100

TABLE II.—BIRTHS.

EXHIBITING the Sex, condition, (as twin or illegitimate,) and Parentage of Children born in the several Counties, during the year ending April 5, 1868.

-					-		-	-		-		_	_
	Births.		Sex.		(CONDI	rion.		NAT	IVITY (PA PA	RENTS.	
COUNTIES.			es.	wn.	Twi	ins.	Illegi	m'te	can.	. Cin.	Fa. n Mo.	Mo.	own,
-	Number of	Males.	Females,	Unknown	Mule.	Fem.	Male.	Fem.	American.	Foreign.	Am. For'gn	For'gn	Unknown
Allegan,	516	258	254	4	6	8		2	270	165	25	34	22
Alpena,	35	17	18						13	11	5	5	1
Antrim,	52	22	30		4	2			29	15	2	5	3
Barry,	463	232	220	1	2	2	2		313	61	32	39	18
Вау,	193	101	92		2	2			37	51	4	-16	88
Berrien,	847	432	413	2	13	9	7	1	536	192	38	73	8
Branch,	557	275	282		4	2	3	1	474	35	20	27	1
Calhoun,	778	401	372	5	12	12		1	508	174	34	48	1
Cass,	415	215	192	8	7	3	2		371	15	8	16	1
Cheboygan,	13	7	8					.,.,	3	5	3	1	10
Chippewa(not	return	ed.)											
Clinton,	233	112	121		2			1	158	32	7	17	1
Delta,	24	17	7		2		1		5	15	1	3	
Eaton,	508	279	232	2	3	15			440	21	13	25	1
Emmet,	52	29	23		1	1	2	1	36	7	5	3	10
Genesee,	631	318	313		12	6	3	3	423	121	30	48	-
Gr'd Traverse,	105	59	51					,,,,	49	30	7	2	1
Gratiot,	220	107	112	1	5	7	3		168	26	5	9	1
Hillsdale,	563	284	279		3	9			478	34	18	38	
Houghton,	74	39	35		3	1		2	-20	38	5	11	
Huron,	234	110	119	5	7	4			23	171	9	23	10
Ingham,	459	241	215	3	6	10	1	2	310	66	19	25	3
Ionia,	451	238	212	1	7	9			310	46	15	39	4
Iosco,		10	17			2		1	9	10	6	2	
Isabella,		47	54			1		1	79	18		2	١
Jackson,		340	282	1	9	3	1	2	436	105	20	43	1
Kalamazoo,		344	295	5	10	8	2	2	426	137	32	49	
Kent,	742			35	6	4		1		197	37	79	5
Keweenaw			and a				١						
Lapeer		1		4		2	3	2	212	126	42	39	9

TABLE II.—BIRTHS,—CONTINUED.

	Births.		Sex.		1	Comb	TTON.		NA.	TIVITY	OP P	NATIVITY OF PARENTS.						
COUNTIES.	8			₩D.	Twi	ns.	Illeg	m'te	ig.		F. 0.	Mo.	į					
	Number	Malos.	Females	Unknown.	Kale.	Fem.	Male.	Fem.	American.	Foreign.	Amer. Foreign	Foreign Amer.	Unknown					
Leclanaw, (not	return	ed.)			ļ	 							ļ					
Lenawee,	871	445	417	9	14	14	4	2	540	172	42	55	65					
Livingston,	383	204	178	6	5	3	1	2	284	54	12	23	10					
Mackinac, (not	return	ed.)					• • • •						ļ					
Macomb,	561	294	267		9	9	1		262	215	34	50	ļ					
Manistee,	131	•	62		4	2	••••	, .	59	61	5	5	1					
Manitou, (not	return	ed.)					• · · ·						 					
Marquette,	114	65	49				••••		3	105		6	 					
Mason,	22	12	10	••••			••••		10	9		1	9					
Mecosta,	112	67	44	1			••••		49	38	11	9	5					
Menominee, .	22	9	. 13				••••		10	4	1	7	ļ					
Midland,	78	29	43	1			• • • •		39	18	7	8	8					
Mouroe,	584	800	278	6	8		3	1	36C	144	31	47	8					
Montcalm,	26 0	135	125		5	7	2	2	182	88	10	14	18					
Muskegon,	816	160	155	1	1	1	1		109	152	13	40	2					
Newaygo,	104	46	52	6				2,	66	16	4	6	19					
Oakland,	562	290	272		1	5	• • • •	4	358	94	32	42	34					
Oceana,	180	96	84		1	8	• • • •	2	111	37	11	17	4					
Ontonagon,	74	82	42			2	••••		8	56	4	6	••••					
Ottawa,	705	374	819	12	7	9	8	1	212	416	26	20	22					
Saginaw, (not	return	ed.)																
Sanilac,	319	167	152		3	3	3	1	26	230	84	29	 •••					
Shiawassee,	330	185	145			6	1	1	228	44	20	28	15					
St. Clair,	858	447	877	34	n	5	2	2	241	556	28	24	16					
St. Joseph,	518	278	287	3	8	4		2	402	60	11	27	18					
Tuscola,	214	112	102						96	69	8	12	29					
Van Buren,	649	842	302	5	7	11	2	2	519	46	28	48	8					
Washtenaw,	898	. 866	325	5	6	12	4	3	351	218	23	64	40					
Wayne,	877	488	438	6	6	12	9	5	360	365	47	89	16					
Total,	19,544	10,088	9,284	172	222	229	66		11,891	5,184	879	1,897	743					

TABLE III.—BIRTHS.

EXHIBITING, by Counties, the number of Children born in each Month, during the year ending April 5, 1868.

Grade 1						Mo	NTUS.						
COUNTIES.	1	1	-		1	er.		er.	ST.		5		'n.
in Table	April.	May.	June.	July.	August.	September	October.	November	December	January.	February	March.	Unknown
Allegan,	52	38	31	40	46	42	53	41	41	36	46	49	1
Alpena,	3	1	2	2	2		3	2	3	5	5	7	
Antrim,	5	2	6	3	2	4	9	4		10	1	6	
Barry,	35	33	34	47	41	33	43	37	44	45	28	41	3
Вау,	21	13	11	13	17	21	14	16	18	15	13	19	3
Berrien,	62	50	51	69	80	59	71	68	78	82	89	88	
Branch,	45	39	31	38	46	50	51	43	45	44	54	70	13
Calhoun,	60	59	56	61	57	75	68	60	72	70	75	61	1
Cass,	27	34	23	34	36	39	26	34	38	37	37	44	1
Cheboygan,	1	1	1	1			2	1	1	2	2	2	
Chippewa, (not returned.)													
Clinton,	22	20	19	21	25	15	18	22	16	18	23	14	
Delta,	3	1		1	6	3		1	3	3	1	2	
Eaton,	34	30	28	34	54	34	47	38	48	52	49	55	1
Emmet,	3	4	2	2	6	2	2	5	11	4	5	1	
Genesee,	54	42	55	47	58	55	53	50	34	63	53	67	
Grand Traverse,	8	7	14	11	8	7	5	7	6	10	11	10	
Gratiot,	21	16	17	15	18	23	18	18	20	16	13	25	
Hillsdale,	37	34	41	1 3		62	42	61	56	48	38	54	
Houghton,	5	2	4		8	5	9	6	7	8	4	10	
Huron,	23	16	21	10.3	17	20	10	15		22	13	40	
Ingham,	24	43		1	23	48	16EE	26	29	0.00	13	1	
Ionia,	38	33	41	1		40	38	40	28	33	100		
Iosco,	2	1	3		4	2	1	2	1	1			1
Isabella,	13	111	8	1 3	4	5	5	9	13	5	10	10	
Jackson,	38	59	51	1	50	54	54	43	54	42			1
de la	63	36	37	100	49	51	63	61	52		66	100	1
Kalamazoo,	68	55	3	1 1 1 1	47					100	1	13	
Kent,	100	00	58	51	97	72	66	55	50	71	61		1
Keweenaw,(not returned.) Lapeer,	42	27	27	43	48	42	38	28	37	34	41	42	1

TABLE III.—BIRTHS,—CONTINUED.

						Mo	NTHS.						
COUNTIES.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.
Leelanaw, (not returned.)													
Lenawee,	69	55	71	65	89	68	72	68	72	74	86	82	
Livingston,	28	86	23	27	29	28	83	27	80	83	37	ξO	9
Mackinac, (not returned.)							 			 	 		l
Macomb,	18		5	47	54	6 2	62	57	53	59	69	75	
Manistee,	21	8	6	10	9	14	8	10	10	12	8	19	1
Manitou, (not returned.)								 			 		
Marquette,	19	18	7	6	9	5	4	5	6	9	18	18	
Mason,	2			1	1	- 5	6		1	1	2	8	,
Mecosta,	10	9	9	7	11	10	12	6	6	16	7	9	
Menominee,	1	1			2	2	4	2		8	8	4	
Midland,	8	4	6	13	u	4	7	3	6	8	6	8	ı
Monroe,	50	89	58	41	32	44	63	45	42	50	59	64	2
Montcalm,	26	26	21	20	27	21	22	10	16	24	20	26	1
Muskegon,	14	19	83	28	25	27	24	81	19	27	89	29	1
Newaygo,	17	8	7	11	8	8	7	11	5	8	7	6	1
Oakland,	48	46	35	41	49	51	85	50	51	51	44	61	.
Oceana,	18	11	21	18	24	15	12	17	14	11	11	18	
Ontonagon,	4	7	9	6	5	6	10	2	6	4	9	6	
Ottawa,	72	47	59	77	54	47	57	36	54	61	45	90	
Saginaw, (not returned.).		••••	••••			••••						• • • •	
Sanilac,	87	27	25	28	23	27	22	18	20	89	29	38	1
Shiawassee,	20	26	28	29	26	25	80	80	28	88	29	26	 ••••
St. Clair,	64	6 1	50	67	97	66	78	61	63	75	87	86	8
St. Joseph,	48	41	51	87	42	46	89	88	86	41	46	53	
Tuscola,	16	21	17	20	11	17	22	16	16	18	17	17	11
Van Buren,	45	59	52	56	67	52	44	56	52	58	51	56	1
Washtenaw,	62	61	41	60	54	66	64	48	59	44	67	80	
Wayne,	67	45	56	78	98	62	81	66	64	81	89	93	2
Total,	1578	1872	1385	1542	1704	1641	1663	1302	1554	1699	1759	2048	109

MARRIAGES.

The number of marriages during the year ending April 5, 1868, was five thousand seven hundred and three.

The largest number of marriages occurred in the month of December, 1867, being eight hundred and seventy-six, (876,) and the least number during any one month was in April, 1867, being only one hundred and eighty-one, (181.)

The number married in each month during the year, is shown by counties, in Table I of marriages.

The following gives an exhibit of the

MARRIAGES IN QUARTERLY RATES:

Quarter	ending	June, 1867,	527
**	"	September, 1867,	1,296
**	**	December, 1867,	2,489
**	**	March, 1868,	1,377
Not stat	ed,		14

Thus it is seen that the number of marriages solemnized during the quarter ending December, is by far the largest. This is influenced by custom and religious observances. Our "Thanksgiving" and "Christmas," and the near approach of "Happy New Year," seems to make this season the favored time for entering into the marriage relation.

The following interesting table exhibits the ages, respectively, of parties married during the year ending April 5th, 1868:

AGES OF MALES,		AGES OF FEMALES.													
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Unknown,	Total Males.
Under 20,	130	26	3				. ,							2	161
20 to 25,	1262	871	111	12	7	1	2							13	2279
25 to 30,	608	768	273	38	19	3	2							9	1720
30 to 35,	122	212	162	75	18	4	1					٠.		9	603
35 to 40,	38	69	82	51	24	13	3			1				2	283
40 to 45,	5	34	39	39	31	15	7		1	.,		٠.			171
45 to 50,	10	17	11	23	32	20	11	3						1	128
50 to 55,	1	4	18	28	19	16	13	7	1	1				1	109
55 to 60,		3	3	8	8	12	8	7	3	2	1				55
60 to 65,	1	2	2	1	4	2	5	12	4	1		1			36
65 to 70,	1		2	1	4	3	2	4	2	2	6	2			25
70 to 75,							2	3	2	3	4	٠,.			14
75 to 80,								.,				1	1		:
80 and over,										1		.,	٠.		1
Unknown,	1	2	1											108	115
Total Females,	2179	2008	707	276	166	89	57	36	13	11	11	4	1	145	570

Of the whole number of persons married, over 20 per cent. were under twenty years of age, while over 58 per cent. were under twenty-five.

Of the whole number of females married, over 38 per cent. were under twenty years of age, while over 73 per cent. were under twenty-five.

Less than three per cent. of the males were under twenty years, and less than 43 per cent. were under twenty-five.

The oldest person married was a man aged 82 years, a resident of Ionia county, who found his bride, a lady of 61 years, in the county of Genesee.

The oldest bride in the State was aged 75 years, a resident of Lapeer county. Her fortunate spouse was aged 79 years. These constitute the oldest couple married in the State.

One man in Eaton county, aged 66 years, led a bride of 19 summers to the hymenial altar; while the youngest worshiper at the matrimonial shrine was a female in Tuscola county, of the age of 13.

Three thousand eight hundred and fifty-four females showed their appreciation of that wisdom acquired by superior age, by marrying husbands older than themselves, while but 283 men chose wives superior to themselves in years.

The average age of parties married during the year is as follows:

Males,	$28\frac{1}{2}$ years.
	231 "
Both sexes.	26 "

NATIVITY.

The whole number of purely American marriages was three thousand two hundred and ninety-three, (3,293,) and the whole number of marriages in which the parties were foreigners exclusively, was six hundred and ninety-five, (695.)

There were six hundred and ninety-two marriages in which one party was a foreigner; and the number of marriages returned, with the nativity of the parties not stated, was ten hundred and twenty-three, (1023.)

The percentage of the nativities is as follows:

The percentage of the hadvittes is as tollows.	
American,	57.74
Foreign,	12.19
American male and foreign female,	4.68
Foreign male and American female,	7.45
Unknown	17.94

In the marriages composed of one foreign party, one hundred and fifty-eight more foreign males married Americans, than American males married foreigners.

In connection with the subject of nativity, some interesting facts may be stated from the reports of the Commissioners of Emigration. During the year 1868, the whole number of emigrants arriving at the port of New York was 213,686, representing thirty-two nationalities, of which nearly one-half were Germans.

Of the whole number, 65,714 remained in New York, 34,625 went to Illinois, 16,537 to Wisconsin, 11,133 to Ohio, while only 7,324 came to Michigan.

Table II of marriages, shows by counties, the nativities and ages in years, of parties married during the year.

4

TABLE I.-MARRIAGES.

DISTINGUISHING, by Counties, and by Months, the number of Marriages Registered during the year ending April 5, 1868.

1	No. of Mar- riges.	121	=	•	8	102	80	156	210		•	:	81	 52	<u>.</u>	=: =:
	Пркрочп		<u>:</u>	<u>:</u>	8	:			:	į	<u>:</u>	<u>:</u>	<u>:</u>		<u>:</u>	
	Матср.	•	61	-		_	12	•	12	2	:	:	==	64	64	_
	February.	•	~	<u>:</u>	8		18	16	12	11		:	유 	*	2	_
	Jamuary	19	61	:	13	40	8	19	24	ផ	-	:	92	<u>:</u>	13	
	лесешрет.	22	:	i	10	11	46	12	8	32	61	:	18	01	92	
LHS.	Домешрег.	32	61	:	10	14	4	15	35	2	61	:	•	*	12	6
Момтнв	October.	2	i	67	24	0	52	32	37	8	:	:	11	64	\$	G
	gebr	=	-	:	-	77	1.4	13	র	64			14		91	6
	August.	•	61	-	2	•	ន	11	11	22	-		G.	-	8	
	.ylut	-	i	:	4	12	27	81	4	14	i	:	∞	:	ส	0
	June.		:	:	-	4	31	•	60	13	•	:	61	-	16	-
	May.		i	7	г	18	ន	-	a	8	:	:	-	- -	ដ	-
	April.		i	:	-	œ	88	:	•	97	i	:	•	<u> </u>	۰	
	COUNTIES.	Allegan,	Alpena,	Antrim,	Barry,	Вау,	Berrien,	Branch,	Calhoun,	Савя,	Сheboygan,	Chippewa, (not returned.)	Clinton,	Delta,	Eaton,	Rumet

Оевене.		_		•	9	8	;	Ş	8	,	:	•	=	9
Grand Traverse	_	<u>:</u>	<u>:</u> _		:	3	:		8	:	1	•	-	8
· · · · · · · · · · · · · · · · · · ·	e4	٠	_	٥	10	0		-	•	•	8	•	-	8
Gratiot,	84	**	_	•		2	80	2	=	60	*	•	:	#
Hillsdale,	-	64	64	-	Ħ	21	83	8	3	83	18			210
Houghton,	49				:	:	4	-	-	67	61	i	61	11
Натов,	*	•	-	67	φ	4	•	4	•	*	-	89	:	\$
Ingham,	18	11	2	83	•	13	2	53	র	2	13	-	ø	22
Ionia,	4	1	•	4	•	8	8	16	8	প্ল	2	7	:	183
I09co,	:		-	:	C*	н	64	-	:	-	64	-	:	9
Isabella,	:	:		:	α ⁻	89	1-	10	8	4	®		:	23
Jackson,	_	:	*	97	∞	8	21	8	37	23	#	82	-	184
Kalamazoo,	-	:	i	89	22	18	59	*	\$	ន	-	2	-	168
Kent,	•	1	•	2	16	8	3	8	2	37	*	 ಹ	:	272
Keweenaw, (not returned.)	i							:	<u> </u>	-:			÷	:
Lapoor,	į	i	64	61	*	81	16	16	8	•	٥		:	16
Loelanaw,		:	_ :_	i	:	C4	cq	8	*	64	00	- · -	:	Ħ
Ілева в в в в в в в в в в в в в в в в в в		-	1	•	•	۰	8	\$	2	ដ	21	2	:	180
Livingston,	64		64	~	•	16	Ħ	ដ	8	13	11	=	:	112
Mackinac, (not returned.)	:	:		:		:	<u> </u>	i	-	÷			÷	:
Macomb,		:	H	-	60	•	82	8	ឌ	16	o	-,-	<u> </u>	106
Manistee,	13	1	91	•	∞	•	*	ø	90	61	e	2		Z.
Manitou, (not returned.)		_	_ _:	-				-	-	- <u>;</u>	- :		=	į

TABLE I.—MARRIAGES,—CONTINUED.

	No. of Mar- riages.	8	19	8	9	8	8	8	8	Ŧ	120	÷	•	22	<u>:</u>	r -	=
	Опклочи	<u> </u>		<u>:</u>	<u>:</u>	<u>:</u>		:		61		:	:	:			
	- Мятср.		:	-	-	-	۰۰	61	2	*	13	•		12		•	•
	February.	-	-	69	<u>:</u>	64	13	•	10	64	77	4	:	10	:	64	;
	.Tannat	1	•	7	61	*	16	49	80	4	8	2	:	16	:	64	
	лесешрет.		•	10	:	80	10	۰	14	49	8		:	92		71	;
188	.төбшөтоЙ		1	•	-	-	8	64	18	7	72	•	:	•		22	
Мохтва	October.	1	60		:	7	12	4	2	9	Ħ	•	:	7	i	4	;
	gebr	11	•		<u> </u>	69	10	•	==	49	4	•	64	12	:	•	
	Auguat	64	80		-	-	•	6	29	61	4	:	64	13	i	49	
	.Tlut	-	64	i	:	64	-	10	92	•	ct		-	=======================================	_:	•	•
	Jane.		:	:	31	H	•	•	i	i	-	:	m	:	:	۰	
	May		64	:	60	i	H	•	-		-		69	61	-:	4	
	LhqA		:	i	:	-	-	•	64		60		-		_:	64	_
	COUNTIES.	Marquette,	Mason,	Mecosta,	Menominee,	Midland,	Monroe,	Montonim,	Muskegon,	Newaygo,	Oakland,	Oceans,	Ontonagon,	0	Saginaw, (not returned.)	Sanilac,	

8t. Chair,			•	88	2	8	8	2	82	2	•	=	10 10 10 10 10	ğ
St. Joseph,	8	11	100	2	82	8	28	2	7	91	16	2	:	£
Paroola,	69	п	69	П	ю	•	16	90	•	16	•	-	:	2
Van Buren,	H	:	7	1	91	11	Ħ	ä	84	84	11	-	:	7
htenaw,	*	49	-	•	•	2	8	8	2	8	71	-	:	2
Wayne, (not returned.)			i	i	i	i			:	i		:	:	:
Stato,	181	183	167	824	867	8	3	762	878	628	3	183 157 824 867 006 864 753 878 628 408 841	11.	8,78

TABLE II.—MARRIAGES.

DISTINGUISHING, by Counties, the Nativities and Ages, in Years, of Parties Married during the Year ending April 5, 1868.

			NATIVITY	Ë			ļ	İ			İ	AGE	H	AGES, IN YEARS.						1	ì
COUNTIES.	COUPLES.	Ушенсвъ-	Foreign.	Amer. Males, and For'n Females.	For'n Males, and Am. Females.	Опклочп.	Under twenty.	20 to 25.	26 to 30.	30 to 35.	35 to 40.	40 to 45.	40 00 00	50 to 55.	.09 01 33	.88 01 08	.07 01 68	70 to 75.	.08 ot 87	80 and over.	Опклочи.
АПодап,	ផ្ទ	83	=	8	-	6	83	8	23	8	=	 a	¦ -	¦	:	 	_ <u>-</u> -	<u> </u> -	╎╌┊	_: -:	1 :
Alpena,	=	Ħ	•			:	49	64	-	•	60		64		<u>:</u>	-	- ⊹	- ⊹	— <u>:</u>	- <u>:</u>	:
Antrim,	•	61	64		-	:	7	-	တ	64	-	-	<u>:</u>	:	<u>:</u>	-	<u>:</u> :	- -}	- ⋮	-:	i
Barry,	8	8	•	•	۵	27	22	22	18	12	-	4	œ	64			$\frac{\cdot}{}$	\div	− :	:	9
Вау,	102	18	17	4	-	8	\$	8	23	15	2	-	H		÷	:	<u>:</u>	$\stackrel{:}{-}$	- ;-	-:	13
Berrien,	88	88	ಹ	71	8	8	148	307	160	8	ಫ	ຂ	12	•	9	•	61	-:-	- :	- :	11
Branch,	156	134	-	ø	•	12	72	126	8	গ্ৰ	۰	-	•	C4	-:	-	:	- ⋮	− :	-:	:
Calhoun,	210	180	ដ	64	9	4	8	188	ま	22	22	9	-	-	•	C1	<u>:</u>	- ⊹	− <u>:</u>	:	•
Case,	25	8	-	64	7	137	118	188	102	8	۵	2	•	•	•	63	<u>:</u> -	− :	− :		11
Cheboygan,	•	7	•	09			7	4	69	-	-	- ;	<u>:</u>	_: :	<u>-</u> -	<u>-</u> :	— <u>;</u> -	- ⋮	- <u>:</u>	-:	:
Chippewa, (not returned,)		:	:	:		:		-	-	:		<u>:</u>	:	_ <u>;</u>	— <u>:</u>	_	-:	− :	-:	-:	:
Clinton,	138	2	•	•	2	16	23	8	\$	7	•	•	-	••		-	— <u>:</u>	-:	-	<u> </u>	12
Delta,	18	•	•	-		67	•	72	•	•		<u>:</u>		_	_ :	_ <u>:</u>	_:	-:	- :	-	:

•		٠,													-		,	,			
Eston,	960	20	99	•	•	911	a	20	90	8	8	-	æ	_	09		03	-	•	:	•
Emmot,	13	49		-	64	0	13	4	80		68	*	61	÷	:	. *				:	:
Gespene	182	125	11	27	18	19	r	120	8	56	16		6	9	4	60	60	63			•
Grand Traverse,	9	28	14	7	•	0	2	\$	55	4	9	64	-	-	:				:	***	:
Gratiot,	1	25	•	*	2	60	3	2	56	10	1-	OR.	-	:	-	п		-		:	4
Hilledale,	210	160	60	•	4	37	2	178	98	83	16	80	10	19	1	60		-		-	&
Houghton,	11	13			:	7	•	91	1	60	63	-	. :	1	-:	,		:	1	*	•
Huron,	40	00	21	:	10	20	88	22	1	9	9	-	60	:		_		:	:	:	•
Ingham,	246	188	7	81	10	19	81	161	9	46	15	10	=	6	4	03	-	63		3	4
Ionia,	183	128	-	11	16	21	8	136	1	54	1	12	NO.	60	40		*	:	:	-	4
I0800,	10	4	64	-	æ	п	9	-	*	1	64	i	15	:				-	:		:
Isabella,	27	22	1	69	•	:	14	8	10	60	23	1		64			1	-			:
Jackson,	184	132	11	•	91	14	99	143	12	9	15	12	9	10	10	_	83		÷		63
Kalamago0,	158	115	19	7	23	1-	25	116	90	26	13		9	4	-	-	-	:	-	****	
Kent,	272	167	3	23	2	+	118	8	111	29	ĸ	6	14	6		08	-	:	+	***	•
Keweenaw, (not returned,)							i	:		_ :		1	13	:	:	-	:	÷	:	****	:
Lapeer,	16	\$	81	92	13	11	\$	2	2		00	+	-	60	69	-	63	:			9
Leelanaw,	28	2	9 0	1	60		11	==	=	94	03			-	:	-		:	•		:
Lenawee,	180	148	14	2	•	10	8	136	8	9	12	10	4	60	63	01		:	•	:	23
Livingston,	112	71	13		1.	19	98	106	23	6	10	9	9	01	-	C4		-	•	:	•
Mackinac, (not returned,)	*****							:				i		:		-		:			:
Macomb,	106	8	8	∞	81	3		83	\$	52	-	00	69	09		64				=	:

TABLE II.—MARRIAGES, --CONTINUED.

			Z	УАПУПУ								A	AGES, IN YEARS.	N Y	EARS.						
COUNTIES.	COUPLES.	• ушецсан-	Foreign	Amer. Males, and For'n Females.	For'n Males, and Am. Females.	Опкпоми.	Under twenty.	20 10 25.	25 to 80.	30 to 35.	.04 of 68	40 to 45.	45 to 50.	50 to 55.	.00 of 66	.69 to 66.	.07 03 38	70 to 19.	.08 of 67	.19Vo bas 08	Опклочи
Manistee,	14	8	35	80	12	4	88	67	22	2	0	68	64	-							
Manitou, (not returned.)	1	1			1	:	-		****	1	:	i	:	1	1	!	:	:	1	:	1
Marquette,	23	9	п	1	64	00	9	15	12	00	-	-	i	•		1		:	:	:	
Mason,	19	10	80	63	64	-	16	14	-	4	i	-	-	1	:	:	-	:	-1	_:	
Mecosta,	83	14			0		17	11	11	**	н	-	-	i	:	- 5	ij	_!	-!	-:	
Menominee,	10	10		!	1	60	49	1	-	i	63	-	9	1	68	61	-	:	_;	:	
Midland,	8	0.	4	63	-	99	10	10	1	-	64	ot	69	-	-	1		1	- 1	:	-
Monroe,	96	42	22	8	6	20	22	70	46	13	10	4	-	64	i	•	:	-	-	:	
Montcalm,	69	88		01	9	24	38	49	52	16	4	03	7	1		-	:	-	:	1	
Muskegon,	96	39	31	CH	11	9	4	9	4	11	٠	10	0	-	09	-	;	:	-		
Newaygo,	41	24	4	10	10	1	88	83	12	œ	09	-	:	03	:	1	:	i	÷	:	
Oakland,	129	16	11	00	4	16	27	100	19	8	ä	10	i	9	1	64	1	1			=
Oceana,	4	98		4	4	-	27	31	24	63	OI.	64	1	1		-	-		1		1
Ontonagon,	٥	-		:		0	C4	•	Ġ4	-	-			1	_ ;	_:	- 3	-	_:		_

Ottawa,	122	88	89	10	12	•	48	18		61 14 18 7 7 4	18	-	-	-	00		Q1			ī	0
Saginaw, (not returned,)		:	:		-		***************************************	:	:	1	:	1	:	1		i	:	:		1	:
Sanilac,	ī	9	42	10	14		38	49	31	-	10	00	69	60	64	:	:	:		1	64
Shiawassee,	76	69	2	60	-	10	42	80	82	11	2+	64	60	1	-	1	CS		1	1	64
St. Clair,	204	42	67	20	13	62	83	166	86	33	14		cq.	64		:	64		:	:	23
Gr St. Joseph,	276	154	80	10	49	104	104	238	110	39	12	7	6	-	-	60	:	C4	i	;	10
Tuscola,	75	45	12	9	12	61	39	20	23	00	00	00	00	60	î		:	:	:	i	4
Van Buren,	141	106	-	60	6	22	64	106	99	14	16	80	9	9	:	-	:		:	i	9
Washtenaw,	196	112	39	11	20	13	20	161	102	88	2	=	œ	-	9	-	63	:		1	
Wayne, (not returned,)										:	1	1	1	1	1	1	:	:		1	:
Total, 5,703 8,293	6,703	3,293	999	267	425		1,023 2,330 4,324 2,414 860	4,324	2,414	98	462	266	8	188	120	1	8	1 2	00	-	264

TABLE III.—MARRIAGES.

SHOWING, by Counties, the number of Marriages in which the Races of the Parties were other than White.

COTTONIC	RAG	JES.
COUNTIES.	African.	Indian
Berrien,	4	
Branch,	1	
Calhoun,	1	
Cass,	5	
Emmet,		8
Hillsdale,	1	1
Ingham,	2	
Jackson,	2	
Kalamazoo,	4	
Kent,	3	
Leelanaw,		2
Marquette,	1	
Mason,		2
Mecosta,	1	
Montcalm,	1	
Oakland,	2	l
Shiawassee,		1
St. Clair,	1	
Van Buren,	1	
Washtenaw,	5	
Total,	35	14

CAUSES OF DEATH.

The observations contained in this report on specified causes of death, are of necessity based strictly upon the returns received at this Department. There is, on examination, no apparent reason for considering them more imperfect than those of births or marriages. Yet the fact of a birth or marriage having occurred, is more easily obtained than the scientific name of a disease, or the true cause of a death.

Some discrepancies are doubtless contained in the returns, resulting not only from the imperfect information given to supervisors and assessors, by heads of families and others cognizant of a death, but also from an imperfect diagnosis by physicians.

METEOROLOGICAL TABLE FOR THE YEAR.

MONTH.	Mean Temperature,	Am't of rain-fall.
April, 1867,	48° 20	2.190 inches
May, "	51° 11	3.809 "
June, "	71° 61	2.828 "
July, "	71° 60	1.782 - "
Aug., "	69° 78	1.740 "
Sept., "	56° 60	1.419 "
Oct., "	50° 60	2.108 "
Nov., "	40° 44	1.774 "
Dec., "	25° 31	1.340 "
Jan., 1868,	19° 00	1.470 "
Feb., "	18° 70	1.280 "
March, "	37° 80	4.650 "
Mean temperature for year,	46° 73	
Total rain-fall,		26.39 inches.

The Weather—Is an important agent in connection with the public health. Through the courtesy of the authorities at the Agricultural College, Lansing, we are enabled to give the foregoing table of observations made at that institution. For the sake of comparison it was desired to give similar tables from other localities, but none were accessible.

No epidemic diseases have prevailed to any extent during the year.

Ten (10) persons lost their lives by railroad accidents. One (1) by lightning. Twenty (20) committed suicide. Eleven (11) murders are reported. Fifteen (15) died from poison, (whether accidental or intentional, not stated,) and one (1) from excessive heat.

Only two deaths are reported from wounds received in the United States service. This number would be augmented, without doubt, if a complete classification of the causes of deaths could have been made, showing that diseases contracted while in the service, and in rebel prisons, at last proved fatal, largely increasing the number of thirteen thousand six hundred and fifty Michigan men, who fell in action or died from wounds received during the late war of the rebellion.

TABLE

EXHIBITING, by Sex and Age, the Number of Deaths from all causes, during the year ending April 5, 1868.

AGE.	311	les.	Jaknown.	PER CE	NT. OF THE	SEXES.	No. aths.
All Languages	Males.	Females.	Unkn	Male.	Female.	Unknown	Per Cent, of whole No, of Deaths,
Under 5 years,	1,195	925	32	55.53	42.98	1.49	34.43
5 to 10,	163	150	7	50.94	46.87	2.19	5.12
10 to 15,	105	114		47.94	52.06		3.50
15 to 20,	131	162		44.71	55.29		4.69
20 to 30,	300	370		44.78	55.22		10.72
30 to 40,	- 212	249	.,	45.99	54.01		7.38
40 to 50,	237	192		55.24	44.76		6.86
50 to 60,	273	186		59.48	40.52		7.35
60 to 70,	276	187		59.61	40.39		7.41
70 to 80,	225	160		58.44	41.56		6.16
80 and over,	124	95		56.62	43.38		3.50
Unknown,	61	109	10	33.89	60.56	5.55	2.88
Totals,	3,302	2,899	49	52.83	46.38	00.79	100.00

It is a surprising fact that of the whole number of deaths reported, from all causes, more than one-third were those of children under five years of age.

Whether or not this is the result of an imperfect knowledge of physiology and hygiene, diet, or a constitutional necessity, it is not practicable to discuss here. But it most certainly demands the highest consideration, not only of scientific men, but of the fathers and mothers of our State. Is not the large proportion of early deaths caused by insufficient and unsuitable clothing and improper diet?

The following table gives the number of deaths in quarterly rates, showing an increase through the year:

Quarter	ending	June, 1867,	1,261
**	"	September, 1867,	1,512
**	**	December, 1867,	1,558
**	**	March, 1868,	1,817
Not sta	ted		102

The estimated average age of all persons who died during the year, is as follows: Males, twenty-nine; females, twenty-six; both sexes, twenty-eight.

Table III of deaths shows, by counties, the ages in years, and sex, of all who died.

The name, place of death, and age of each person who died in the State during the year, aged ninety-nine or over, is shown below:

EB IB BUILDING	194	AGES.	111	THE STREET
NAME.	Year.	Month.	Day.	PLACE OF DEATH.
Jacob Poland,	104	0.14	1	Bridghampton, Sanilac Co.
Susanna Dubois,	103		150	Port Huron, St. Clair Co.
Catharine B. Kimball,	100	5	11	Franklin, Lenawee Co.
Roswell Raymond,	99	10	7	Marathon, Lapeer Co.
John McWilliams,	99	3		City of Flint, Genesee Co.
Debora Dopp,	99	1	20	Reading, Hillsdale Co.
John Warner,	99	11/100	1	Brooklyn, Jackson Co.

The following table enumerates the ten causes producing the highest rate of mortality, with the number of deaths resulting therefrom, and percentage of all deaths in the State;

CAUSE OF DRATH.	NUMBER.	PERCENTAGE
Consumption,	952	15.23
Typhoid Fever,	362	5.79
Pneumonia,	313	5.01
Dysentery,	25 8	4.13
Old Age,	238	3.81
Dropsy,	209	3.34
Heart Disease,	206	3.30
Casualty,	198	3.17
Intermittent Fever,	176	2.82
Brain Disease,	160	2.56

, TABLE I.—DEATHS.

THE number of Deaths from several Specified Causes of each Sex in each Month, and at different Specified Periods of Life, which were Registered during the year ending April 5, 1868.

		Consumption.	Typhoid Fever.	Pneumonia.	Dysentery.	Diarrhosa.	Croup.	Diphtheria.	Scarlatina.	WhoopingCough.	Mensles.
To	rals,	952	362	313	258	136	117	110	100	80	20
	Males,	464	186	189	120	68	64	61	54	28	7
SEX.	Females,	488	175	124	134	67	53	49	46	41	13
200	Not stated,		1		4	1				1	****
1	April,	96	22	43	3	5	12	9	7	8	2
	Мау,	71	9	20	11	5	2	8	1	10	1
	June,	74	13	6	7	2	6	3	3	7	3
	July,	64	19	14	14	7	8	3	2	4	1
	August,	64	21	10	51	25	9	8	4	9	1
at a	September,	72	42	11	73	39	6	15	2	12	
MONTHS.	October,	70	60	16	49	17	5	13	5	6	****
Me	November,	70	48	18	24	8	5	10	4	1	
	December,	77	38	25	5	7	16	13	24	1	
10	January,	78	36	35	4	5	23	4	17	3	4
	February,	94	28	50	8	4	13	9	17	3	3
п	March,	109	24	61	4	10	11	12	13	14	5
- 0	Unknown,	13	2	4	5	2	1	3	1	2	
Tor	ALS,	952	361	313	258	136	117	110	100	78	20
1	Under 5,	66	46	118	164	97	111	77	63	75	16
п	5 to 10,	15	32	10	19	7	4	20	30	3	1
8	10 to 15,	23	33	9	12			4	3		1
	15 to 20,	67	52	8	5	1		1	61		1
	20 to 30,	239	62	20	6	3	1	.6	1		
AGEB.	30 to 40,	155	20	24	7	4	1	1	1		
AG	40 to 50,	119	29	17	9	2					1
	50 to 60,	100	35	29	6	3		1	1		
	60 to 70,	76	23	47	10	8					
1	70 to 80,	57	8	24	4	5					
	80 and over,	11	2	6	3	2					
1	Unknown,	24	19	1	13	4					

TABLE II.—DEATHS.

THE Percentage of Deaths from several Specified Causes, in the State, of each Sex in each Month, and at different Specified Periods of Life, which were Registered during the year ending April 5, 1868.

		Consumption.	Typhold Fever.	Pneumonia.	Dysentery.	Diarrhea.	Croup.	Diphtheria.	Scarlatina	Whooping Cough.	Measles.
Stat	e,	15.23	5.79	5.01	4 13	2.18	7.87	1.76	1.60	1.28	0.32
Tor.	ALS,	100	100	100	100	100	100	100	100	100	100
1	Males,	48.74	51.38	60 38	46.51	50.00	54.70	55.45	54.00	47.50	35.00
SEX	Females,	51.26	48.34	89.62	51.94	49,26	45.30	44.55	46.00	51.25	65.00
	Not stated,		0.28		1.55	C.74				1.25	
1	April,	10.08	6.08	13.74	1.16	3.68	10.25	8.18	7.00	10.00	10.00
	Мау,	7.44	2.48	6.39	4.26	3.68	1.71	7.27	1.00	12.50	5.00
	June,	7.76	3.59	1.91	2.71	1.48	5.12	2.73	3.00	8.75	15.00
	July,	6.71	5.26	4.47	5.43	5.15	6.84	2.73	2.00	5.00	5.00
	August,	6.71	5.81	3.19	19.78	18.36	7.68	7.27	4.00	11.25	5.00
	September,	7.55	11.61	3.51	28.29	28.69	5.12	13.64	2.00	15.00	
MONTHS	October,	7.35	16.58	5.10	18.98	12.51	4,27	11.82	5.00	7.50	
Mo	November,	7.35	13.25	5.79	9.30	5.89	4.27	9.11	4.00	1.25	har.
	December,	8.08	10.49	7.98	1.94	5.14	13.67	11.81	24.00	1.25	
	January,	8.19	9.94	11.18	1.55	3.67	19.66	3.63	17.00	3.75	20.00
	February,	9.87	7.73	15.97	3.10	2.94	11.10	8.18	17.CO	3.75	15.00
	March,	11.55	6.63	19.49	1.56	7.34	9.46	10.89	13.00	17.50	25,00
	Unknown,	1.36	0.55	1.28	1.94	1,47	0.85	2.74	1.00	2.50	
Tor	ALS,	100	100	100	100	100	100	100	100	100	100
	Under 5,	6.93	12.82	37.70	63.57	71.32	94.87	70.00	63,00	96.15	80.00
	5 to 10,	1.58	8.86	3.19	7.36	5.15	3.43	18.18	30.00	3.85	5.00
1	10 to 15,	2.42	9.14	2.88	4.65			3.64	3.00		5.CO
4	15 to 20,	7.03	14.40	2.56	1.94	0.74		0.91	1.00		5.00
	20 to 30,	25.10	17.16	6.39	2.33	2 21	0.85	5.45	1.00		
69	30 to 40,	16.29	5.54	7.67	2.71	2.94	0.85	0.91	1.00		
AGES.	40 to 50,	12.50	8.03	5.43	3.49	1.47					5.00
	50 to 60,	10.50	9.69	9.26	2.33	2.21		0.91	1.00		
	60 to 70,	7.98	6.37	15.02	3.89	5.88					
	70 to 80	13355	2,20	7.67	1.55	3.67					
	80 and over,	0.722	0.54	1.91	1.15	1.47					
	Unknown,	1000	5.25	0.32	5.04	2.94					

If proof was needed of the importance and value of statistical information on the subjects which constitute this report, the foregoing table (II) would be sufficient.

Consumption—The belief has always existed in Michigan that the inhabitants of the State were comparatively exempt from consumption. It is true that within a few years the impression has gained ground that the disease was increasing, but that any such large percentage of deaths occurred from that disease as is shown in the table, will greatly surprise the Michigan reader. In the Eastern States it was known that consumption was very prevalent and fatal, but in Michigan it was generally thought to be comparatively rare. The whole number of deaths reported in the State is 6,250; the number from consumption is 952, making the large percentage of 15.23. In Massachusetts the percentage of deaths from consumption to deaths from all causes, in 1865, was 17.69, showing a difference in favor of Michigan of only 2.46 per cent.

The percentage of females was 51.26, of males, 48.74.

The greatest number of deaths occurred in March; the least in July and August. The percentage for March was 11.55; for July and August it was 6.71.

The number of deaths in Spring was 276, or 28.9 per cent.

" Winter " 249, 26.1 "
" Autumn " 212, 22.3 "
" Summer " 202, 21.2 "

(In the season of Spring, March, 1868, is included with April and May, of 1867.)

There is no disease in the table that shows a mortality so evenly distributed through the seasons as consumption appears to be from the above comparison, but it is believed that even this uniformity is not greater than the average of years will show.

Six and ninety-three hundredths per cent. of the deaths occurred under the age of five years. This appears large, but it is not greater than the percentage reported in Massachusettsthe average there for eleven years, ending in 1865, being 7.24 per cent. under five years.

The greatest mortality is between the ages of 20 and 30, the percentage being 25.10.

The mortality of different ages, shown in the foregoing table, is compared below with that shown in a table of the Massachusetts Report for 1865, extending over a period of 11 years:

Michigan	FOR 1867-8.	MASSACHUSETTS FOR 1855-1865.
Under 5 years,	. 6.93 per cent.	7.24 per cent.
5 to 10 "	. 1.58 "	1.31 "
10 to 15 "	. 2.42 "	1.74 "
15 to 20 "	7.03 "	8.32 "
20 to 30 "	. 25.10 "	25.99
30 to 40 "	. 16.29 "	18.69 "
40 to 50 "	. 12.50 "	12.56 "
50 to 60 "	. 10.50 "	9.30 "
60 to 70 "	7.98 "	7.81 "
70 to 80 "	. 5.99 "	5.16 "
80 and over,	. 1.16 "	1.22 "
Unknown,	. 2.52 "	.66 "

A coincidence so complete as this cannot be allowed to pass without comment.

In Michigan this is the first effort to accumulate these statistics. Our law is imperfect, our officers inexperienced. In Massachusetts they commenced the work over a quarter of a century ago. They have a good law, and must have gained experience.

Michigan is a new State, Massachusetts an old one; Michigan is inland, Massachusetts is sea-board; Michigan has a rich al-

luvial soil and a malarious climate, Massachusetts has neither. The people of Michigan are mostly employed in agriculture and internal commerce; the people of Massachusetts much more in manufactures and foreign commerce. In fact, there is hardly a single external influence affecting health which they have in common, and notwithstanding all this, these two tables are almost identical, so nearly do they correspond; and this is not the only correspondence which might be shown.

We have refrained from giving tables showing correspondences as to percentage of deaths to population, because our last census is five years old, and also very imperfect. Other correspondences might be shown, but for similar reasons we do not now attempt it.

Still the lesson to be learned from this single table, we think, is sufficiently plain. The cause or causes which produce consumption are not partial or local in their character or effects, but general and extensive.

If it is said that in some localities it is much more frequent than in others, and that some of these localities are quite limited—admit it. That is, in these localities the conditions exist which are favorable to its development. We can admit no more. Some fields of a farm will produce much larger crops of wheat than others, but we do not look for the cause of the growth of wheat in any particular field. We rather find the cause of its growth—under those influences and conditions necessary to the devolopment of vegetable life—to be in its peculiar cell organization, an organization which allies it to all growth.

Consumption is spread all over the globe, with a uniformity of distribution, a uniformity of fatality, in all ages and in both sexes, a uniformity in all seasons and even climates, that cannot be claimed for any other disease known. Hence, its cause must be found in some of those conditions of life which are most generally deemed necessary to existence and conducive to happiness. Further, consumption for many years has been increasing very steadily and rapidly, at least amongst civilized nations. Its

cause, then, must be an increasing cause, and must be developed through some close connection with the development of society and the progress of the world.

Can we not now discover some similarity between the conditions of society in Michigan and in Massachusetts, which may help to account for the strange uniformity in the prevalence of consumption in the two States.

Massachusetts has probably the best common school system and the best supported common schools in the world. In proportion to its age and wealth, Michigan is at least her equal.

According to the census of 1860-

Massachusetts has-	Total Control	Michigan has—	
Public Schools,	4,134	, Public Schools,	4,007
Teachers in,	5,308		5,582
Pupils in,	206,974	Pupils in,	201,391

Perhaps the cause of consumption is to be found in a disproportionate development of the nervous system over the digestive and assimilative. We have only touched a very extensive subject. The foregoing is stated somewhat positively, because it could be written thus in fewer words and in less space. If we have given even a hint which will be of any use in the investigation of this subject, our satisfaction will be complete.

Consumption is very evenly distributed throughout the State. In the six southwestern counties along the shore of Lake Michigan, there was one death reported for every 660 inhabitants, and one death from this cause to every 7.5 deaths from all causes.

In the six southeastern counties constituting the east shore of the State, there was one death reported to every 748 inhabitants, and one death from this cause to 6.6 from all causes.

In the central portion of the State, taking the same counties used in the comparison of pneumonia, (see below,) the deaths reported from this disease was one for every 787 inhabitants, and one death from this cause to 6.7 deaths from all causes.

Typhoid Fever.—The whole number of deaths reported was 362. This is probably much too large. Many physicians, especially the young and ignorant, in order to magnify their own professional importance, magnify the importance of the diseases which they treat, and they are very prone to call any continued fever typhoid fever.

The disease prevailed throughout the year, but only two deaths are reported in May. In October there were 60 deaths, and in November 48, together making nearly 30 per cent. of the whole number reported. The percentage of males is 51.38; of females, 48.34. The greatest mortality was in Lenawee county, which reported 25 deaths; Jackson reported 22; Berrien, 18; Macomb, 17; Genesee and Oakland, 16 each. Twelve of the smaller counties report no deaths from this disease.

The percentage of deaths reported under five years is 12.82, which is probably too large. The disease is not peculiar to infancy, and from five to thirty years of age steadily increases in mortality. Why the mortality under five, should fall to 8.86 per cent. between the ages of five and ten years, is difficult to answer. The greatest mortality, 17.16 per cent., occurs between the ages of 20 and 30.

Pneumonia.—The whole number of deaths reported from this cause was 313, of which 60.38 per cent. were male, and 39.62 per cent. female. The difference is 20.76 per cent., which is very large.

One hundred and eighteen died under five years, a percentage of 37.70. From five to ten the percentage is 3.19; from 10 to 15 it is 2.88, from which age it slowly increases up to 15.02 per cent. between the ages of 60 and 70.

The percentage under five years is very large, but probably not larger than the average which will be shown by future reports.

The greatest mortality was in March, (19.49 per cent.,) next February, (15.97 per cent.,) April, (13.74 per cent.,) January, (11.18 per cent.,) December, (7.98 per cent.,) May, (6.39 per cent.,) and the least was in June, (1.91 per cent.) The six southwestern counties, lying on Lake Michigan, viz: Berrien, Van Buren, Allegan, Ottawa, Muskegon and Oceana, in 1864, contained a population of 85,864. The number of deaths from pneumonia reported in these counties was 65, which is one death to every 1,321 inhabitants. The six southeastern counties, lying on the eastern shore, viz: Monroe, Wayne, (excluding Detroit,) Macomb, St. Clair, Sanilae and Huron, contained a population of 115,186. The number of deaths from pneumonia reported in these counties was 38, showing one death to every 3,031 inhabitants.

Comparing the western with the eastern shore, we find the mortality from this disease to be 2.29 times greater on the former than on the latter. The cause of this great difference cannot with certainty be accounted for. The influence of the prevailing western and northwestern winds from across Lake Michigan, may to some extent account for the disparity.

Comparing the ratio of deaths from pneumonia to deaths from all causes, the western shore shows one from pneumonia to 13 from all causes. The eastern shore shows one to 27 from all causes.

In the central portion of the State, a district consisting of twelve counties, constituting a range two wide, running upthrough the State from Hillsdale and Branch to Isabella and Mecosta, there was in 1864, a population of 187,199. In this district there was reported 87 deaths from pneumonia, and a mortality of 1,595 from all causes. This would give one death from pneumonia to every 2,152 inhabitants, and one death from this cause to 18 deaths from all causes—in both particulars very nearly an average between the two shores.

Dysentery.—The mortality from this disease was 258, or 4.12 per cent. of all causes. This is probably not more than the average, which will be shown hereafter. The disease is somewhat more fatal in the new counties than in the old. The greatest mortality was in Ionia and Jackson, being 20 in each.

Sixty-seven per cent. of the whole number of deaths occurred in August, September and October. Sixty-three and 57.100 per cent. of deaths occurred under 5 years of age, and 7.36 per cent. from 5 to 10.

Diarrhea.—This disease shows a mortality of 136, and a percentage of all diseases of 2.17. Like Dysentery, it is peculiarly a fall disease, and shows even a greater mortality under 5 years of age, viz: 71.32 per cent. It is quite equally distributed over the State, though the new counties seem to suffer the most.

Croup.—One hundred and seventeen deaths are reported from this cause. This is a winter disease, 44.43 per cent. of all the cases occurring in that season.

The greatest number (23) occurred in January; the least (2) in June.

The percentage, under 5 years of age, stands next to whooping cough, viz: 94.87.

Diphtheria.—This comparatively modern disease shows a mortality of 110, a percentage of 1.76 to all causes. 15 deaths occurred in September, 13 in October, 13 in December, and 12 in March.

The percentage of deaths under 5 years of age is 70, from 5 to 10 years, 18.18.

Scarlatina.—Just 100 fatal cases were reported. Seventy-one of these occurred in the months of December, January, February and March. Only one case was reported in May. Sixty-three were reported under 5 years of age, and 30 between 5 and 10 years. A local epidemic appears to have prevailed in Genesee and Shiawassee. Genesee reports 26 cases, and Shiawassee 12.

Whooping Cough.—Eighty deaths from this cause are reported. The greatest mortality was in the months of March, September and May. The least, in November and December. The mortality under 5 years of age was 96.15. This disease appears to be strictly an infantile disease, no cases being reported over 10 years of age.

Measles.—Only twenty fatal cases of this disease were reported. Twenty-five per cent. of these were in March. No

cases were reported in September, October, November and December. Eighty per cent. were under 5 years of age, 5 per cent. between 5 and 10 years, 5 per cent. between 10 and 15, and 5 per cent. between 15 and 20 years.

This disease, as well as scarlatina, prevails in this State epidemically, and the average will undoubtedly be largely increased by future reports.

7

TABLE III.—DEATHS.

SHOWING, by Counties and by months, the number, sex and age, in years, of those who died during the year ending April 5, 1868.

	1	DEATES.	188	T													_											
COUNTIES.	TOTAL	SEX	н							Момтив	TH8.											₹	Agrs.					
		Males.	Females.	Пркромр.	April.	May.	Jane.	July.	Tsugue	September. October.		Почетрет. Песетрет.	January.	February.	March.	Тикпомп	Under 5.	.01 o1 d	10 10 12	15 to 20.	20 to 30.	.04 ot 0g	40 to 50.	50 to 60.	.07 ot 00	108 01 02	30 A over.	Unknown
State,	6250	3303	2899	1 6	232	383	346	373	512 65	827 555	5 485	5 618	8 535	5 583	699	102	2155	8 319	530	293	670	191	426	462	188	385	919	168
Allegan,	147	81	99	:	17	13	91	6	6	8	11	7 13	3 13	3 16	20	-	53	9	4	10	18	15	6	0	=	6	110	i
Alpena,	4	61	64	:	1	1	•	1	1	1	1			1 2	-		:	-	:	-	-	:	-	:	1	:	:	1
Antrim,	22	12	2	:	64	-	1	4	63	63	CS	.:		11	4		9	:	-	-	-	es	1	4	-	:	4	•
3arry,	143	81	19	7	2	123	12	-	-	16	1	12 16	12	2 14	18	64	4	00	es		19	0	6	15	64		10	
Зау,	F	88	31	CI	4	9	4	4	12	10	-	60	10	9	9	-	88	60	:	64	9	0	09	60	:	1	:	
Berrien,	210	100	6	61	9	13	#	14	10	31 2	21 2	22 19	19 23	3 11	22	*	8	6	G	15	5	11	15	62	2	9	9	
Branch,	167	89	18	;	0	9	16	6	0	17 1	14 1	12 17	7 22	17	17	-	2	9	00	=	83	15	0	12	10	16	0	
Calhoun,	258	148	101	63	24	19	22	=	83	21 2	26 2	22 23	3 17	200	26	4	77	4	00	-	53	25	22	63	26	12	17	
Cass,	122	F	2	н	6	10	-	0	-	6	00	-	8 11	18	13	10	8	cs	*	9	00	-	-	12	123		63	
Cheboygan,	4	60	-	:	1	i	1	-	:	-	-	1	-		:		-	:	1	- 1	1	-	-	1	:	н	1	
Chippewa, (not re turn.	turn	ed.)	ed.)	=:				-					-	_	:		:					:	-				:	

Clinton,	181	8	8		16	-	6 12	11	91	18	12	•	13	•	95	=	- 14	-		8 15	_	9 12	2	=	••	-	:
Delta,	13	~	•	- -	-	<u>:</u>	<u>:</u>	-		_	<u>:</u>	_:_	~	:	64	:	•	<u> </u>	:		~	-	~	_	<u>:</u>	:	:
Eaton,	145	92	8	- :	-	-	<u></u>	<u>~</u>	7 17	22	18	18	2	7	2	•	\$	•	••	91	<u></u>	•	2	•	=	•	•
Emmet,	91	•	-	$\stackrel{\cdot}{=}$	-	<u>:</u>	<u>-</u>	<u>:</u>	-	~	:	•	-	-	•	-	•		:	~	:	<u>:</u>	<u>:</u>	<u>:</u>	-	-	:
Genesee,	250	126	121	=	1	9	16 17	- 23	<u>×</u>	17	11	2	72	22	8	:	26	g	-	20 20	=	=	2	2	2	•	•
Gr'd Traverse,	88	16	8	-:		<u>:</u>		8	_	•	•	4	-	7	64	:	•	:	•	<u>~</u>		•	_		<u>:</u>	:	-
Gratiot,	u	8	 8	=	•	<u> </u>		80	12	•	•	64	•	0	-	69	ន	•	60	- C1	<u>-</u>	4	•	•	•	-	•
Hillsdale,	162	8	2	=	91	-	_	1 16	12	=	12	2	Ξ	প্র	9	80	\$	•	-	8	11	~		11	=	=	:
Houghton,	æ	16	11	-	-			-	7	•	_	:	_:	-	•	-	2	64	64	69	.	-	•	_	<u>:</u>	:	64
Huron,	83	88	8	=	۲.	- 61	~		. -	*	•	•	8	•	•	:	53		60	-	-	<u> </u>	64	64	-	:	-
Ingham,	140	6	8	-4-	-1	61	-	* •	14	2	•	•	81	2	13	138	2	•	—	7	22	=	ន	=	2	•	7
Ionia,	170	8	82	-6-	21 1		8 11	-1	18	15	7	-	•	2	18	10	2	•		0 21	=	_	2	2	=		•
Iosco,	۰	8	4	=	_ <u>:</u>		<u>:</u>	_: -:		<u>:</u>	-	14	-	-	64	-		<u>:</u>	<u>:</u>	:	-		<u>:</u>	≟	-	:	-
Isabella,	æ	র	=	=		<u> </u>	:	*	*	.	∞	:	9	∞	80	-	2	64			:	٠	_	64	•	:	64
	217	118	8	<u></u>	17 2		14 11	91	8	27	ଛ	=	=	2	8	64	2	2 2	7	22	22		8	=	=	=	2
Kalamazoo,	182	\$	81	_	18	-1	15 12	12	8	2	11	10	ន	2	=======================================	-	£	-	82	9		=	7	2	=	64	•
Kent,	5	Ξ	8	÷	1 2	- <u>2</u> -	10 15	- 11	8	9	60	ដ	18	2	8	:	8	=	<u> </u>	21 8	<u> </u>	<u> </u>	=	7	2	2	-
Keweenaw, (not	1862	- PG-	÷	÷	$\frac{\cdot}{\cdot}$	- <u>:</u> -	- <u>:</u> -	-:-	:	<u>:</u>	_:_	<u>:</u>	_: _:	:	:	÷	$\dot{\overline{:}}$	<u>:</u> :	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u> _	<u>:</u>	÷	:	:	:
Lapoer	147	2	5	÷	17 1	9	~	8	=	*	~	2	12	91	11	•	3	ន	•	91	<u>~</u>	••	_	•	2	•	••
Locianaw.	13	16	=	=	:	-	~	8	4	•	64	81	н	•	•	<u> </u>	-	64		-	_			••	-	:	•
Lenawoe	25	- 871	ន	-61	18 2	21 1	16 11	2	8	8	2	ន	2	ង	\$	"	22	22	-	8	=	2	34	8	ឧ	F	•
Livingston,	8	3	3		<u></u>				-	••	•	H	•	*	22	=	8	-	_		21	_	2	<u>•</u>	•	•	••

TABLE III. -DEATHS, -CONTINUED.

		DEATHS	HS.	-	-			-			1			19	-		=	1		-								
COUNTIES.	TOTAL	SEX						1		Monres	THS.								*			Ac	AGES.					1
	V- A	Males.	Females,	Unknown,	April.	May	June.	July.	August.	September.	October. November.	December	January.	February.	March.	Unknown,	Under 5.	.0I o1 d	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	.00 ot 0d	.07 01 00	.08 01 07	.19V0 & 08	Unknown,
Mackinac, (not re	turn	ed.)			1	1	1 :	;	:	;	:	:	:	1 :	1 :	1	1 :	:		-:	1	- :	-			1		1
Macomb	165	91	11	-00	r-	:	-	14	11	16 1	18 1	15 1	18 13	3 20	0 29	00	21		50	0	21	15	14	10	12	13	9	00
Manistee,	83	41	22	:	16	603	4	:	00	₩.	00	4	9	4	G1	:	11	10	1 0	60	0	9	-	4	64	C4	1	00
Manitou, (not re	turn	ed.)		:	:	:	:	:	:	:	:	:	:	:	:	:	==	-	*	-	:		:	1	:	:	:	1
Marquette,	45	63	13	:	20	9	9	-*	4	-	co	61	:	1	01 5	:	. 25	-	1 1	63	-	60	-	60	1	-	1	1
Mason,	10	0	-	:	-	-	:		:	-	00	1 ::	:	:	.: cs	:	-	4		-	-	-	:	1	-	1	:	07
Mecosta,	34	119	15	:	10	:	co	1	00	20	10	63	4	20	1 2	:	. 13	:		4	64	-	C.S	:	-	-	63	1
Menominee,	9	4	.07	;	-	:	:	:	-	-	-	-	-	1	:	:		:	-	:	-	61	7	1	1	-	1	1
Midland,	40	19	20	-	9	-	-	9	-	-	:	:	-	63	63	9	28		1 1		-	-	-	1	-	C4	1	ca
Mouroe,	173	16	81	:	18		0	10	6 1	19 1	16 1	12	18	12 20	0 27	01		01 89	9 0	4	16	11	13	12	16	0	-	4
Montcalm,	62	22	52	:	4	9	67	9	9	00	0	9	61	9	1 1	:	. 24		60	4	4	9	2	63	4	CH	00	63
Muskegon,	116	50	99	:	9	-	10	6 1	13	18	12	81	7	27	1 8	:	. 58	-	4	-	11	8	9	40	4	-	-	_
Newaygo,	34	21	13	=	4	63	64	1	9	1	-	4	-	- 01	1	9	1 16	:		- 23	4	-	04	01	-	4	1	-

	-		-	1	i	•	••	9	9	•	64	•
=	-	:	-	1	10	63	0	9	:	6	00	11
7	-	1	-	1	00	00	15	23	63	11	12	16
3	н	1	10	1	-	133	9	23	4	7	7	26
7	64	1	13	i	H	13	19	100	2	=	53	133
2	4	-	14	:	-	9	11	3	9	11	12	13
3	10	н	13	:	1-	9	77	10	60	=	16	21
8	Ħ	1	16	:	49	13	83	14	60	18	25	55
10	*	1	12	1	4	·00	4	00	64	7	15	14
0	2		9	i	63	*	12	a	9	04	00	16
123	40	1	22	:	60	1-	14	16	-	9	11	=
92	92	40	117		52	31	13	19	21	79	63	140
8	60	1	64		-	00	60	29	60	C4	-	1
17	. 00		11	1	=	14	85	53	9	16	27	98
2	10		=	1	-	13	22	20	10	15	13	38
40	CH	1	10	1	60	12	22	22	4	24	7	24
15	11	-	27		*	123	10	14	63	20	30	15
26	.00	1	23	1	9	12	11	=	C3	=	11	18
12	.1.	7	53	:	1	10	18	16	4	21	18	65
117	.0	H	さ	:	6	00	133	77	10	2	23	622
19	0	•	63	1	G	-	25	10	-	6	28	52
18		н	10	:	01	9	=		4	10	14	50
11	. 10		23	:	68	40	10	9	4	6	4	83
10	- 63	1	17	i	9	1-	23	=	00	12	16	15
107	_		24	Ĭ	6	o.	22	13	14	15	E.	27
6		_:	:	:	- 1		-8	1	:	:	•:	11
1100	_	63	123	:	45	50	110	88	28	85	12.5	135
120	9	63	116	od.)	31	55	108	82	40	100	Ħ	153
922	76	49	236	turn	16	123	224	170	89	185	240	323
Onkland	Oceaba,	Outonagon,	Ottaws,	Saginaw, (not re	Sanilac,	Shlawnssee,	St. Clair,	St. Joseph,	Tuscola,	Van Buren,	Washtensw,	Маупе,

TABLE IV.—CAUSES OF EXHIBITING by Month, by Age and by Sex, the Registered No. of Deaths

	B	DRAT	нв.								Mo	NTHS.					
		Sex															
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.
Totals,	3302	2899	49	6250	582	383	346	373	512	627	555	485	518	535	583	699	102
Males,												,					
Fem.,		8		3					,	1				1	1		
Males,	12				1		2			5		3	1				
Fem.,		6		18	1		1	2					1	1			
Males,	22				1	2	2	2	4		4	3	1		2	1	
		17		39			1		1	2	1	3	2	2	2	3	
Males,	5				1		1						1	1		1	
Fem.,		4	٠,,	9						1					1	2	
Males,	21				1	4	4	2	2	2	2			2	1	1	
Fem.,		13		34	1	1		2		3	2	1		1	1	1	
Males,	88				6	7	5	3	9	16	8	9	3	11	4	7	
Fem.,		71			4	3	6	9	5	6	11	4	4	8	6	5	
Unkn., .			1	160							1						
Males,	16				8	2	1		1				2		1	1	
Fem.,		13		29	1	1			1		2		4	1	2	1	
Males,	8				1	2					1			1	1	2	
Fem.,		3			1						1	1					
Unkn., .			1	12		1											
Males,	14					4			1	1		3		2	1	2	
Fem.,		26		40	1	5	1	1	3		2	5	2	1	2	3	
Males,	169				16	5	10	18	14	11	15	15	19	14	10	20	2
Fem.,		29		198	3	6		1	3	1		3		4	4	4	
Males,	27				1	2	2	7		1	3	1	2	2	2	3	1
Fem.,		46		73	4	2	1	2	6	1	6	8	3	3	6	4	

DEATH,—Alphabetical Abrangement.

from various Specified Causes, during the Year ending April 5, 1868.

					Ac	PR.						•
CAUSE OF DEATH.	Under 5 y's.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.	Unknown.
	2155	819	229	293	6:0	461	426	462	463	385	219	168
Abortion,												
"					2		1					
Abscess,	2	 	1	1	7			1			j .	
"					••••	2	4	,				
Apoplexy,	ļ	ļ				1	8	6	3	6	2	1
"	1			. 1	•••••	2	4	3	3	3	1	
Asthma,	1	ļ	 		••••	1	1			2		ē
"			 					2	1	1		ļ
Bowels, Disease of	18	 	2		1	1	1	2			1	
	8	 			1	1		1	1	1		
Brain, Disease of,	56	7	5	4	7	2	2	3	1	2		
"	25	7	9	4	7	3	2	2	2			
44 44	1			ļ	 							
Brain, Softening of	3	ļ		ļ,	8	1	1	1	1			
"	9	2	 		 			1				1
Bronchitis,	. 3	 	ļ	1	ļ	2	1		1			
"	. 1								1			1
"	. 1	ļ	·		ļ							ļ,
Burns and Scalds	, 7	2	ļ	1	ļ	1	2	1				ļ
"	13	1	3	4	2	1			1	1		
Casualty,	. 20	8	12	19	35	26	20	9	9	3	3	4
"	. 9	4	3		3	2	4	3	,	1	,	
Cancer,	. 3		1	 	1	1	4	9	8	2	ļ,	
"	. 1	1	1	l	3	6	13	10	5	4	I,	li :

TABLE IV .- CAUSES OF DEATH,

		DEA	TH	3.	1					м	ONTHE						
		SE	x.							_		-					
	Males.	Females.	Unknown.	Totals.	April.	May.	June.	July.	August	Sept.	October.	November.	December.	January.	February.	March.	Unknown
Males,	45				8	3	4	4	3	2	5	3	2	2	2	7	1.:
Fem.,		87		82	3	4		2	6	3	1	3	5	6	2	2	
Males,	1														1		l
Fem.,		2		3									1		1		l
Males,							l										١
Fem.,		82		82	9	4	8	4	4	7	6	6	7	9	7	10	1 1
Males,	9					1		1	2	2		1		2			
Fem.,		1		10	1												١
Males,	33							3	3	18	5			2		1	1
Fem.,		23					2	1	6	7	1	1	1	1			
Unkn.,			2	55					1	1							
Males,																	
Fem.,		1		1						1							
Males,	21				2			1	2	3	1	2	2	2	3	3	
Fem.,		20		41			2	1	3	1	6	1	2		1	2	1
1000	464				48	37	24	31	33	33	21	36	44	45	48	53	8
Fem		188		952	48	34	50	30	31	39	49	34	33	33	46	59	5
Males,	21				1	3	1	1	5	1	2		1	2	1	3	
Fem.,		16		27	3			1	2			2		2	2	4	
Males,	64				6	1	3	3	3	3	8	3	10	12	9	7	1
Fem. ,		53		117	6	1	3	5	6	3	2	2	6	11	4	4	
Males,																	
Fem.,		1		1)					1					
Males,	29				2	2	3	2	3		1	3		3	3	5	
Fem.,		27			2		2	5	1	2	6	3		1	3	1	
Unkn., .			1	57											1		
Males,	3														2	1	
Fem.,				3 ')					
Males,	68				5	2	1	4	9	20	6	6	5		2	6	2
Fem.,		67		135		3	1	3	16	19	10	2	2	5	2	4	

-ALPHABETICAL ARRANGEMENT, -CONTINUED.

					A	G B ,						
CAUSE OF DEATH.	Under 5 y's.	6 to 10.	10 to 16.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.	Unknown.
Cephalitis,	24	5	8	1	5	2	1		2	2		
	17	8	7	2	2	8	 	2	1			
Chicken Pox,	1	• • • • • •			ļ		 					
" "	2				! 		 .		ļ			.
Child-birth,				ļ			ļ		ļ			ļ
"				9	85	82	5	[']	ļ			
Cholera morbus,	1		ļ		2	1	 .	2	1	2		ļ
u		••••	<u> </u>		•••••	ļ	 			1		ļ
Cholera Infantum,	88					 -	 					ļ
** **	20	•••••					 		ļ			ļ
" "	2	••••		 -	 .	 .	 		¦			<u>.</u>
Chores,	•••••		 .			••••	ļ					ļ
"		•••••	•••••				1					!
Congestive Chi ls,.	8	3	1	3	1	1	1	2	4	2		<u>'</u>
	9	1	2		4	••••	1		1	1	••••	
Consumption,	84	9	6	23	87	78	60	64	51	40	7	
"	82	6	17	44	152	77	59	83	25	17	4] ;
Convuisions,	18	•••••	•••••	••••	2	••••		1		••••	••••	¦
"	9	1	2		4	••••	••••	¦	<u>'</u>		• • • •	¦
Croup,	63	•••••	•••••		••••	1	 	••••	¦	••••	••••	¦
"	48	4	•••••	•••••	1	••••			¦	••••	••••	<u>'</u>
Cyanosie,	•••••	•••••	• • • • • •	•••••		•••••	····	••••	<u>'</u>	••••	• • • •	<u>.</u>
		·····	••••	••••	••••				¦····	• • • •	• • • •	<u>'</u>
Debility,	9				1	• • • • •	····	2	8	4	4	¦
"	14	•••••	• 1	•••••	1	1	····	8	8	1	8	
•••••	•••••	•••••		• • • • • •		•••••	••••		, I	••••	••••	
Delirium Tremens,				• • • • • •		1	1		i		• • • •	
				•••••				-		• • • • •		
Diarrhœa,	51 45	4	• • • • • •	•••••	2 1	2 2	2	1	•	·····	1	
	8	3	•••••	1	. 1	2	2	. 2	1 4	. 5	1	•

TABLE IV .- CAUSES OF DEATH,

		DEAT	HS.		'					м	ONTH	3.					
		Sez	t.							_		-					
	Males.	Females.	Unknown.	Total,	April.	May.	June.	July.	August	September.	October.	November.	December.	January.	February.	March.	Unknown.
Unkn., .			1	136							1						
Males,	15				2		1	1		2	3	2	1	1	2		
Fem.,		2		17	1											1	
Males,	61				5	6	2	1	3	9	8	6	4	4	6	6	1
Fem.,		49		110	4	2	1	2	5	6	5	4	9		3	6	2
Males,	96				3	9	6	7	13	7	6	3	6	9	7	19	1
Fem.,		113		209	12	11	14	7	6	8	8	8	8	10	10	9	1
Males,	59				5	5	9	10	8	2	5	3	3	2		6	1
Fem.,		4		63	1						1	1					1
fales,	120				1		5	5	28	35	19	11	2	2	7	3	2
em.,		134			2	11	2	9	23	36	28	13	3	2	1	1	1 2
Jnkn., .			4	258						2	2						
Males,	10					1		1		3	1		1	2		1	
řem.,		8		18	2	1	1	1						1	1		1
fales,	68				3	2	11	1	8	6	9	6	4	6	4	8	
7em.,		40		108	5	4	2	3	3	4	1	3	2	4	2	6	1
fales,	10					2			1	2	1				2	2	
řem.,		8		18	1	1				1	1	1		1	1	1	
fales,	20				1	2	2	1	2	1	3	1		1	3	3	
řem.,		22		42	2		1	1	3		1		2	4	2	6	
fales,	6				2				1	1				2			
řem.,		2		8										1		1	
fales,	81				5	6			7	17	9	8	6	5	7	8	3
em.,		80			3	5	3	5	5	9	10	5	10	5	9	10	1
Jnkn., .			1	162							1						
fales,	8				ļ	••••			1	1	2	2	1				1
Pem.,		6		14		1		1		2		1		1			
fales,	22				ļ!	2	2	2	3	4	1	4	2	2			
Fem.,		8		30		1	2		1	1		1				2	
	186				11	3	7	9	18	22	28	24	18	21	16	13	1

-Alphabetical Abrangement,-Continued.

		AGE.													
CAUSE OF DEATE	Over 5 y's	6 to 10.	10 to 15.	15 to 20.	20 to 80.	30 to 40.	40 to 50.	50 to 69.	60 to 70.	70 to 80.	80 & over.	Unknown.			
Diarrhœa,	. 1				• • • • • •										
Diabetes,	.]			2	1	2	1	3	4	2					
"	.						1	1							
Diphtheria,	. 45	11	3		1			1							
"	. 32	9	1	1	5	1									
Dropsy,	. 8	13	3	2	5	6	13	10	14	16	4	2			
"	. 12	3	5	5	10	11	9	17	22	13	3	3			
Drowned,	. 8	6	11	7	8	4	5	4		.,.,		6			
"	. 2	 .					1	1							
Dysentery,	. 79	8	3	3	4	3	3	3	7	3	3	1			
"	. 84	11	9	2	2	4	6	3	3	1		9			
"	. 1		 .		ļ			,.				2			
Dyspepsia,	. 4	1			 			2	2	1					
"	. 8		1	 	 		1	2							
Enteritis,	. 26	1	3	4	6	2	8	5	4	1	1	1			
"	. 16	4	1	4	5	2	2	3	1	2					
Epilepsy,			ļ		4	1	2		1	1	1				
"	. 2	 	2		2	1		1			.,				
Erysipelas,	. 11	1	 .	1	1	1	1	2				1			
"	7	1	1	 	8	2	2	3		3					
Exhaustion,					2		2		2						
"		·	 	·		1			1						
Fever,	88	6	7	1	5	2	6	4	4	5		,			
"	35	8	3	5	10	6	2	5	3	4	2				
"	1		ļ												
Fever, Intermit	,. 1		ļ	1	1	1	2				,	1			
u u	1	3	1					1							
" Remitte	ıt, 4		1	1	2	2	5	1	3	1	2				
" "	2		ļ	2	1	1		1				1			
" Typhoid	. 26	12	17	25	36	10	17	19	14	2		1			

TABLE IV .- CAUSES OF DEATH,

		DEAT	нз.							м	ОЛТН	3.					
		SE	x.														
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Tobnoun
Fem.,		175			11	6	6	10	8	20	32	24	19	15	12	11	1
Unkn., .			1	362									1				
Males,	4					1			1		1	1					
Fem.,		4		8					1	1					1	1	
Males,	49				7	3		2	2	7	3	3	5	6	4	6	1
Fem.,		47			6	4	5	1	2	4	1	1	9	2	6	5	1
Unkn., .			2	98	1							1					
Males,	4							1			2	1					
Fem.,				4													
Males,	2					1	1										,
Fem.,		5		7					1	1	1		1			1	
Males,	11					3			2	1	1	1	1		1	1	
Fem.,				11													,
Males,	104				14	6	13	7	7	3	8	11	2	7	14	5	
Fem.,		102		206	9	7	8	5	9	5	7	10	1	10	13	11	
Males,	5					1		1		1			1	1			
Fem. ,		8		13			1			2		1		2	2		
L'ales,	2							1								1	
Fem.,				2													
Males,	2					1				1							
Fem.,		1		3			·				1						
Males	10				ļ	1	1		2	2	2				1		ļ
Fem.,				10	ļ	<u>'</u>	·										
Males,	3					اا	١				1	2				J	
Fem.,		2		5	1		·						1				į
Males,	9	ļl			·		····	1	2	2	1		ī		2		
Fem.,		8		17		1						1	4			1	
Males, ¹	1	ļl				اا	١							1			į
Fem ,		1		2		·!	·	••••	[]	[]					1		
Males,	02				2		,	4	,	3	2	1	2	2	1	,	

. _Alphabetical Arrangement, —Continued.

	Aga.													
CAUSE OF DEATH.	Over 5 y's.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.	Unknown.		
Fever, Typhoid,	19	20	16	27	26	10	12	16	9	6	2	15		
" "	1													
" Typhus,						1	2					1		
				1	2				1					
Fits,	40	1	1		4	1	1	1						
"	32	2		2	5	3		2		1				
"	2													
Fracture,					1			2			1			
"														
Gastritis,		1						1						
"	1			1		1	1	1						
Gravel,	1							2	6	1	1			
"														
Heart, Disease of,.	5	8	8	4	7	8	11	19	23	17	1			
	10	2	2	3	8	16	12	18	19	11				
Hemorrhage,	1		1		1			2						
"	2			1	2	1	1	1						
Remorrhoids,									2					
"						.,								
Hepatitis,			1				1							
"					1									
Hernia,	2			1				4	1	1	1			
44														
Hip Disease,	1				1		1							
"				1		1								
Hydrocephalus,	8			1										
. "	6	1					1							
Hydrothorax,	1													
."								1						

TABLE IV .- CAUSES OF DEATH,

	1	DEATI	ıs.							Mo	ONTHS						
		Sex															
	Males.	Females.	Unknown.	Total.	April.	May.	Jane.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Unknown.
Fem.,		12		32	3	1			1	2		1		1	2		-1
fales,	64				13	2	1	5	6	6	4	3	1	4	8	9	2
Fem,		61			6	3	1	2	5	6	3	4	5	5	7	14	
Unkn., .			1	126										.,		1	
Males,																	
Fem.,		1		1	1												
Males,	4									2	1			1			
Fem.,		5		9		2				1	1			1			
Males,	5				1					104	1	1	1	1			
Fem.,	1.5	••••	1	5		1				****		•					
Males,							••••	••••	****	****	1	1	••••	1	****	••••	
-	5				1	••••	••••		••••	1	10		****	100	****	••••	1
Fem.,		1		6		••••										,	
Males,	15						1		1	3	3	1	1	1	2	2	
Fem.,	The said	1		16			••••	****	••••	****					1		3
M ales,	36			••••	2	1	1	1	4	4	2	1	••••	6	2	9	10
Fem.,	150	27		63	1		2	1	••••	3	4	4		1	5	5	1
Males,	1				5	2	2	4	5	4	3	5	5	5	5	11	2
Fem.,	****	48		106	5	3	5	4	1		1	4	4	3	7	8	3
Males,	-7				1		1	1			•••			2		2	
Fem.,		13		20	1	1	2		1					2	3	3	
Males,												.,,,					
Fem.,		17		17		1	2	2	1	.,		2		3	3	3	
Males,	3					1		1					1				
Fem.,		2	1.,	5		·			1					.,		11	
Males,	7				1	1				1	1		1	1	1		
Fem.,		1		. 8		J		1									
Males, .		1				1											
Fem., .	1	1 2		. 2		1	1										
Males,			1		1	1.	1		1	2	1					2	
Fem , .	1	9	1.	1	1	1	1		2	3	1						1

-ALPHABETICAL ARRANGEMENT, -CONTINUED.

		AGE.													
CAUSE OF DEATH.	Under 5 y's.	5 to 10.	10 to 15	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.	Unknown.			
Infantile,	12											١			
Inflammation,	84	1	4	2	4	3	3	6	2	2	1				
"	34	8	2	1	7	2	1	3	3	4	,				
"	1.			ļ											
Influenza,				ļ	 							•••			
"	1		 	ļ								•••			
Insanity,				 	1		1		1	1		ļ			
"							2	1	1	1		ļ			
Intemperance,		 					1	4				ļ			
					 							ļ			
Jaundiee,	1		 		 			1	2	1		ļ			
"				 											
Kidneys, Dis. of,			 	2	5	2	1	2	3	1	1	ļ			
""				 	1							١			
Liver, Disease of,.	4	2			8	5	6	5	6	4	1	•••			
" "	2	1	2	2	8	2	4	4	2	3	2	•••			
Lungs, Disease of,	27	1	3		4	3	4	5	8	2					
46 44	18	2	1	2	4	7	2	2	7	6	1				
Measles,	5	1	1									•••			
"	11			1			1					····			
Metria, (Puer. F.,)		••••			 							ļ,			
" "				2	6	7	1					:			
Mortification,		•••••				1	1	1				٠			
	1	••••							1	,		<u>.</u>			
Murder,	1		1		1	1		2	1			ļ			
"	1	••••	ļ	 								ļ			
Neuralgia,										••••					
					 		1								
Noma, (Canker,).	7		ļ								1	ļ			
44 44	7		١	1	1			1				l			

TABLE IV .- CAUSES OF DEATH,

		DEATHS.								м	ONTH	3,					
	Ĭ.	SEX															
	Males.	Females.	Unknown,	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December,	January.	February.	March.	Unknown.
Males,	120				13	9	6	7	6	8	6	10	17	14	10	13	1
Fem.,		118		238	8	12	11	4	2	5	5	8	10	14	17	19	3
Males,	48				3	3	1	3	3	3	3	1	5	4	5	12	9
Fem.,		32		80	1	1		4	1	5	5		2	7	4	2	
Males,	3								1	1				1			
Fem.,		6		9	1	1					1				3		
Males,	1							1									
Fem.,		7		8		1						2		1		3	
Males,	189				25	16	3	8	6	7	6	9	14	19	37	35	4
Fem.,		124		313	18	4	3	6	4	4	10	9	11	16	13	26	
Males,	10				1	2		1				1	1	1	2	1	
Fem.,		5		15		1	1		1	2							
Males,	1					1											
Fem.,				1													
Males,	7				1		1				2		1		1	1	
Fem.,		3		10		1				1	1						
Males,	13				2	1	2					1		1	2	4	
Fem.,		10	١	23	2		1	2			1		1	2		1	
Males,	54				5	1		2	2	1	3	3	13	6	13	5	
Fem.,		49		100	2		3		2	1	2	1	11	n	4	8	1
Males,	17				1	2		1	1	2	1	4	1	1		3	
Fem.,		13	١	30		2	2			1	2	2		2	2		
Males,	4													3		1	
Fem.,		3		7			1						2				
Males,	21				2	4	1	1	2	1	2	1	2		2	2	1
Fem.,		14		35		2		2	2			1	3		1	1	2
Males,	1										1						
Fem.,				1													
Males,	3								1	1			1				
Fem.,		3		6			1				1				1		

ALPHABETICAL ARRANGEMENT, -- CONTINUED.

					AGE	•						
CAUSE OF DRATH.	Over 5 y's.	6 to 10.	10 to 15.	15 to 20.	20 to 30.	80 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 & over.	Unknown.
Old Age,									4	88	77	
"								8	8	87	64	
Paralysis,					1		8	7	19	15	2	,
"	1	1	 			2	1	2	11	8	6	
Peritonitis,		1					1	 	1		 	 .
"	1			2	1			1				1
Pleurisy,							 	1				
"		1			1	1	1	••••	 	8	 	
Pneumonia,	70	7	5	4	13	13	9	19	29	17	8	
"	48	8	4	4	7	11	8	10	18	7	8	1
Poison,	2			2		1	2	1		••••	2	
44	1			1	1		• • • • •	••••	2	••••		
Pur. and Scurvey,		•••••		1						••••		ļ
" "		•••••	•••••							••••	••••	
R. R. Accident,		••••		1	2		2	1		••••	••••	1
" "		• • • • • •			•••••	••••	1	••••	1	1	••••	
Rheumatism,		•••••	3		1	2	2		1	2	2	 -
"	1	1	1		1	1	1	8	1	••••	••••	····
Scarlatina,	36	16	•••••		1	1				••••	••••	 -
"	27	14	3	1		••••		1		••••	••••	 -
Scrofula,	10	••••	•••••	1	•••••	••••	4	••••	2	••••	• • • •	ļ
"	5	•••••	1		2	1	1	••••	2	1	••••	
Small Pox,	2	•••••		1	1		••••	••••	••••	• • • •	••••	••••
"		1	•••••	2	•••••			¦	• • • •	••••	• • • • •	• • • •
Spine, Disease of,	8	8	1	1.	2	8		1	1	1		
	5	1	•••••	2	1	2	1	ļ	2	••••		 ····
Splenitis,		••••			 	1		····			····	ļ
"		•••••			•••••	••••	••••		····	••••	····	····
Stomach, Dis. of,.	2	•••••						ļ		1	ļ	

TABLE IV.—CAUSES OF DEATH,

		ДВАТПВ.															_
		Sex	ĸ.							Mo	ONTHE	L					
	_	₩	ë	— I					I .			j j	j j	<u> </u>	1 15		Ę
	Males.	Females.	Unknown	Totals.	April.	May.	Jane.	July.	August.	Sept.	October.	November	December	January.	February.	March.	Unknown
Males,			ļ						1						<u> </u>		
Fem.,		ļ	 	1				ļ	ļ	 			 		 	 	
Males,	18	ļ	 . .		1	2	1	 	8	3	3	2	1		1	1	
Fem.,		5	 	23	1			ļ	ļ		 	1	2	ļ	1	ļ	
Males,			ļ					ļ	 .		 	 		ļ		 	
Fem.,	 	1		1		ļ			ļ		 			 	ļ	1	
Males,	11	ļ	٠.			1	1	2	4	1	 	1	1	 	1	 	
Fem.,		9		ļ					8		2	1	1		2	 -	
Unkn.,	••••		1	21				¦	<u> </u>		 	 		ļ	1	 	
Males,	4				1				ļ		1		1	1		 	
Fem.,		7		11	2	 			ļ		1	1	1	1			
Males,	2	ļ				 			<u> </u>		 	 			ļ	2	
Fem.,	 	····	٠٠	2		 .		¦	<u>.</u>	 	 				ļ		
Males,	9	 			····	1		¦		1		1	8	 	1	2	ļ
Fem.,		11		20	ļ	1	1	ļ	1	8	1	2	ļ	1	1	 	
Males,				ļ	 	!		<u> </u>	ļ	ļ					ļ		
Fem		4		4	1			ļ	<u> </u>	¦	ļ		1		2	 	
Males,	5	•••		 	1		1	1		ļ	1	 		,1	 	 	
Fem.,	 	1		6	 	<u> </u>			ļ	ļ			1		ļ		ļ
Males,	895	ļ		 	41	19	17	24	81	37	87	86	36	82	82	44	9
Fem. ,		340	¦	 	24	16	23	25	83	30	20	22	28	20	38	89	21
Unkn.,		ļ	30	765	ļ	2	8	1	1	2	1	1	4	2	2	2	9
Males,		ļ			 -	¦		 	ļ			 			ļ		
Fem.,	····	1	١	1	 		 		ļ	 	 			1			
Males,	38	····			4	5	2	2	2	5	4	1	ļ	8	2	6	3
Fem.,	·····	41		ļ	4	5	5	1	7	7	2		1		1	8	
Unkn.,		ļ	1	78			• • • •	1	ļ	••••							
Males,	6						••••	1		2			1	ļ		2	•••
Fem.,		4		10	1	1		ļ			1	1	••••				•••
	1	İ		1	ı '	'		1		1 :		ı					

-Alphabetical Arrangement,-Continued.

-					A	GB.						
CAUSE OF DEATH.	Under 5 y's.	6 to 10.	10 to 15.	15 to 20.	20 to 30.	80 to 40.	40 to 50.	60 to 60.	60 to 70.	70 to 80.	83 & over	Unknown.
Sun Stroke,									1			
"										• • • • •	 	
Suicide,				2	1	4	8	5		3	 .	
"				1		1	8	• • • •			 	
Syphilis,										ļ	 	
"					1			• • • •				
Teething,	11				 	•••••	,					ļ
4	9					•••••					 	
"	1				 	! . ****	 					
Throat, Disease of	2				1			1				
"	5		1		1		 				 	
Thrush,	2									•••	 	ļ
"							 					
Tumor,				2	1		2	2		1	 	
"	1				8	1	1	1	2	1	 	
Tarn of Life,	 		 				 	••••			 	•••
" " …	 					ļ	3	1			 	ļ
Ulcers,	1					ļ		3	1		ļ	ļ
"						 .	1			••••	ļ	
Unknown,	245	15	14	7	12	8	15	17	11	16	2	8
	198	8	12	8	26	16	11	10	13	7	8	2
"	20					1	 			••••		
Uterus, Disease of,							 	• • • •		••••		
46 66							 	1		••••		
Whooping Cough,	87	1								••••		
44 44	89	2				••••	ļ	••••			••••	
44 .4	1	ļ				 	ļ			• • • •		
Worms,	4	2	 			 .	ļ	• • • • •		••••	¦	
"	8	1				ļ						١

EXHIBITING by Counties, the Registered Number of Deaths from various Specified Causes, — Statistically Classifled, (Still-Births included,) during the Year ending April 5, 1868. TABLE V.-CAUSES OF DEATH,-CLASSIFED ARRANGEMENT.

		Ī		
CAUSES OF DEATH.	Втатв.	Allegan.	Alpena.	4 Antrim.
All Causes,	6,271	147	4	22
Specified Causes,	5,851	185	4	18
Clarses.		ł		
I.—Zymotic Diseases,	1,686	85	2	2
II.—Constitutional Diseases,	1,801	86		4
III.—Local Diseases,	1,554	42	1	7
IV.—Developmental Diseases,	477	11		5
V.—Violent Deaths,	888	11	1	
Orders.				
I.—1. Miasmatic Diseases,	1,612	85	2	2
2. Enthetic Diseases,	2	 	 -	ļ
3. Dietic Diseases,	10	ļ		 -
4. Parasitic Diseases,	12	 -		
II.—1. Diathetic Diseases,	805	5		2
2. Tubercular Diseases,	996	81		2
III.— 1. Diseases of Nervous System,	522	10	1	8
2. "Organs of Circulation,	207	2		1
3. " Respiratory Organs,	471	24		1
4. " Digestive Organs,	240	8	 	2
5. " Urinary Organs,	43	1		
6. " Generative Organs,	4	 		
7. "Organs of Locomotion,	41			
8. " Integumentary System,	26	2	 	
IV.— 1. Developmental Diseases of Children,	80			
2. " " Adults,	91	5	 .	
3. " " Old People, .	239	6		4
4. Diseases of Nutrition,	67		 	1
V.—1. Accident or Negligence,	352	11	1	
2. Homicide,	11		ļ	
3. Suicide,	20	ļ		••••
Causes not Specified.	920	12		4

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Barry.	Bay.	Berrien.	Branch.	Calhoun.	Case.	Сребоувап.	Clinton.	Delta.	Eaton.	Emmet.	Genesoe.	Grand Traverse.
143	71	210	167	250	122	4	181	12	145	16	250	28
116	42	176	148	225	102	4	120	11	125	9	225	28
87	24	54	89	49	24		87	2	43	1	97	7
32	8	82	42	54	82	2	24	5	81	2	57	6
29	8	67	46	87	36		45	2	36	8	48	10
6		7	13	26	4	1	8		10	2	15	1
12	2	16	8	9	6	1	11	2	5	1	8	4
36	22	53	89	48	23		87	2	43	1	97	7
•••••		• • • • •		•••••		••••	•••••		•••••	•••••		••••
1	•••••	1			1			••••	•••••	•••••	• • • • •	••••
•••••	2	•••••	••••	1	• • • • • • • • • • • • • • • • • • • •	••••	•••••	•••••	•••••	•••••	••••	•••••
6	1	7	8	18	9		4	1	13		11	2
26	7	25	84	41	23	2	20	4	18	2	46	4
7	1	80	20	26	10		9	1	14		18	1
4	1	3	8	18	1		14		5	1	5	1
10	2	20	8	24	19		11		10	1	8	2
5	2	9	11	13	6		10	1	7		11	4
2	2	1	1	3			ı				1	
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	l			2							l ı	
2		4	5	8	1				1	1	5	1
3		1	7	16	8		8		8	1	9	ļ ⁻
1		2	1	5	 	1	 	 	1	 	 	
10	2	10	6	6		١.	,			١.	8	١.
12	2	16	1	°	5 1	1	2	2	5	1		•
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27	29	84	19	84	20		11	1	20	7	25	1

Kalamazoo. Houghton. Hillsdale. Irgham. Isabella. Jackson. Gratiot. Huron. Lapeer. Ionia. Iosco. Kent. TABLE V.-CAUSES OF DEATH,-CLASSIFIED ARRANGEMENT,-CONTINUED.

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Locienaw.	Lenawec.	Livingston.	Macomb.	Manistee.	Marquette.	Маєоп.	Mecosta.	Menominee.	Midland.	Monroe.	Montcalm.	Muske on.
27	271	103	167	63	45	10	34	6	40	178	62	116
25	232	89	147	54	41	9	28	6	28	158	53	104
2	75	20	24	29	4	4	3	1	12	42	16	49
6	45	24	51	14	9	1	6	2	5	83	16	13
8	77	34	88	6	14	2	8	1	7	51	14	16
2	16	7	17	2	6		8	1	4	14	4	18
7	19	4	7	12	8	2	3	1		18	8	8
2	75	18	84	20	4	4	3	1	:1	41	16	49
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8	9	7	16	2	l	1				4	6	4
8	86	17	85	12	9	1	6	2	5	29	10	9
		İ		1			1					1
2	26	10	20	2	4	1	2	••••	5	25	5	7
1	12	5	2	1			2	1		8	2	2
1	16	14	8	1	7	1	2	• • • • • • • • • • • • • • • • • • • •	2	14	8	2
8	8	2	5	2	2	·····	1		¦ 	2	2	8
•••••	11	2		' !	1	·····		· · · · · ·		¦·····	1	1
•••••			1	 		` 		¦	¦·····			
1	4	1	1	¦·····				' 		1 -	1	
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1	4	5	5	ļ	6		 	!		2	1	•
1	2	ļ	. 3	1		ļ	1	1		2		1
•••••	16	2	8	1	ļ	!	2	 	2	9	2	
•••••		ļ	1	 	ļ	<u> </u>	1		2	1	1	11
7	16	1 4	7	12	8	2	8	1		13	3	8
	8		ļ					1				
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		1							1		1	
2	89	14	20	9	4	1 1	11	•••••	12	20	9	12

Washtenaw. Van Buren. Ontonagon. St. Joseph. Newaygo. Oakland. Clair. **Wayne**. Oceana. ruscola. TABLE V.-CAUSES OF DEATH, --CLASSIFIED ARRANGEMENT, --CONTINUED. · 13 в

	DISEASES.	STATE	Allegan.	Alpena.	Antrim.
	I.—l. Miasmatic.				
	Totals,	1,612	85	2	2
ë	1. Small Pox, (a,)	10			
DEATH,—Classified Arrangement,—Continded	2. Measles,	20	1		
ONT	3. Scarlatina,	103			
۲	4. Diphtheria,	117			
Ä,	5. Quinsy,				
EME	6. Croup,	117	8		
NG.	7. Whooping Cough,	79	2	••••	1
RR.	8. Typhus, (b,)	369	6	1	
4	9. Erysipelas,	49			
FIE	10. Metria, (Puerperal Fever,)	17			
1881	11. Dysentery,	251	6	•••••	1
Ģ	12. Diarrhœs,	137	2		
Ţ	13. Cholera Infantum,	55	2		
ZI.	14. Cholera Morbus,	10			
Œ	15. Ague, (c,)	52	4		
	16. Remittent Fever, (d,)	218	8	1	
OF	17. Rhenmatism,	23	1		
V.—CAUSES	I.—2. Enthetic.	İ			
A U	Totals,	2			
Ö	1. Syphilis,	. 1		· • • • • •	
>	2. Stricture of Urethra,	1			
图	I.—3. Dietic,				
TABLE	Totals,	10			
F)	1. Purpura and Scurvy,	1			
	2. Delirium Tremens	8			•••••
	8: Intemperance,	6			
	I.—4. Parasitic.				
	Totals,	12			
	1. Thrash,	2			•••••
	2. Worms,	10			••••

		1		 -		1		1				-
Barry.	Bay.	Berrien.	Branch.	Calboun.	Cass	Cheboygan.	Clinton	Dolta	Eaton.	Emmet	Gonesee.	Grand Traverse.
36	22	- 53	39	48	23		37	2	48	1	97	7
		8		ļ		 .					 	
	8			 	ļ		 	 	 	 	 	
1	1		ļ	1	8	 	 			 .	26	1
8	5	8	4	1	8	 	4		8	 .	4	
			 -		 							
4	1	11	1	6	2		2		8		6	
8		 	8	2	1		1	1			4	
10	8	18	13	14	1	 	14		15		16	2
•••••		1	8	4	1	 			2		1	
•••••	•••••	8	1	1	2			 	1	· • • • • • • • • • • • • • • • • • • •		•••••
.4	1	8	8	7	2	·····	11	•••••	9	• • • • • • • • • • • • • • • • • • • •	16	· 8
8		1	2	4	2		8		•••••		8	
••••	2	2	 	8	2		••••	, 1	•••••	•••••	4	
•••••	••••	1	ļ	1	2	·····		••••		• • • • • •		
1	••••	8	••••	2			1	•••••	2	• • • • • • • • • • • • • • • • • • • •	3	1
6	1	3	8	2	1	•••••	1	••••	8	1	9	•••••
1		1	1	•••••	1	•••••	••••	• • • • • •	••••	••••	ļ	•••••
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TABLE V.-CAUSES OF DEATH,-CLASSIFIED ARRANGEMENT,-CONTINUED.

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	Gratiot	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia,	Ioeco.	Isabella	Jackson.	Kalamazoo.	Kent	Lapser.
	25	80	9	9	29	50	1	25	68	87	39	40
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	1	4	2	•••••	2	8	 			2	. 5	2
	5	10		1	7	9	ļ	2	22	8	. 8	9
	•••••	8		1	1	1		<i>-</i> -	1	. 1	2	3
		2		•••••	•••••		·····	1	1	•••••	1	• • • • • •
	7	1	1	•••••	2	20		14	20	8	4	8
	6	2	1	1	3	6	•••••	• • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	. 5	••••
		•••••		• • • • •	1	•••••	• • • • • •	• • • • • •	4	4	3	3
		•••••	•••••	•••••	1	•••••	•••••	•••••	1	•••••	•••••	••••
	•••••	2		•••••	1	1	•••••	•••••	4	1	•••••	1
	2	1	1	•••••	7	8	1	7	6	5	8	5
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Leclanaw.	Lenawee.	Lavingston.	Macomb.	Manistoc.	Marquette.	Mason.	Mecosta.	Menominec.	Ridland.	Monroe.	Montosim.	Muskegon.
2	75	18	84	20	4	4	.8	1	11	41	16	49
•••••	•••••	•••••	1					•••••	 -	••••		
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• • • • • •	2	1	2	6	1				•••••	•••••		1
• • • • • •	9	1	1	1	1			1		1	1	•••••
	••••	•••••										•••••
	6,	1	1					 	1	4	1	8
	ģ	8	2			 		 		8		
1	25	1	17	4			2		ļ	6	4	14
	8	1	1		•••••	1	1	¦		8		
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•••••	5	5	1	5		8		 .	8	9	2	2
1	2	ļ	2				 		7	2	1	11
••••	8		2		1	 	 	 .		5		1
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	3		1		 	 	 		 		2	
	g.	5	8	4	1	ļ	ļ			7	4	14
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Washtenaw. Van Buren. Shinwassee. Ontonagon. Newaygo. St. Clair. Oakland. Sanilac. Tuscola. Oceana. TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.



	diseases.	STATE.	Allegan.	Alpena.	Antrim.
	II.—1. Dіатнятіс.				
	Totals,	305	5		2
	1. Dropsy and Anemia,	208	4		1
UEL	2. Cancer,	75	1	•••••	1
ME	3. Noma, (Canker,)	17			—.
වී	4. Mortification,	5			
آ	II.—2. TUBERCULAR.				
Arrangement,—Continued.	Totals,	996	81		2
GEN	1. Scrofuls,	30	4		•
RAN	2. Phthisis, (Consumption of Lungs,)	949	27		2
AR	3. Hydrocephalus,	17			
ð	III.—1. Nervous System.				
DEATH, CLASSIFIED	Totals,	522	10	1	3
SS.	1. Cephalitis,	80			
೪	2. Apoplexy,	38	2		1
Ή,-	3. Paralysis,	79		1	
AT	4. Insanity,	9			
	5. Chorea,	2			
OF	6. Epilepsy,	107	4		
	7. Convulsions,	37	 		
USE	8. Brain Diseases, etc.,	170	4		2
V.—CAUSES	111.—2. Organs of Circulation.				
.].	Totals,	207	2		1
	1. Pericarditis,		 		
BLE	2. Heart Diseases, etc.,	207	2		1
TABLE	III.—Respiratory Organs.				
_	Totals,	471	24		1
	1. Bronchitis,	12			
	2. Pleurisy,	11	1		••••
	8. Pneumonia,	316	17		
	4. Asthma,	9			
	5. Lung Diseases, etc.,	128	6	 	1

						<u> </u>	,		1		
Bsy.	Berrien.	Branch.	Calboun	Cass.	Cheboygan.	Clinton.	Delta.	Eston.	Emmet	Genesse.	Grand Traverse
1	7	8	13	9	 .	4	1	18		11	2
1	6	6	9	4		3	1	10		6	1
	1	2	2	4		 		2		4	1
			2	1		1		1		1	
		•••••				 			•••••		
7	25	84	41	23	2	20	4	18	2	46	4
	4	•••••	1			1		1	••••	1	•••••
7	20	34	37	23	2	19	4	17	1	42	3
•••••	1		8	•••••				••••	1	8	1
1	30	20	26	10	·····	9	1	14	• • • • • •	18	1
•••••	12	6	10	4	·····	6		•••••	•••••	5	••••
•••••	1	1	2		·····			1	• • • • •	1	• • • • • •
••••	9	3	1	1		1	•••••	4	••••	1	•••••
	•••••	1		•••••	•••••			•••••	••••	2	•••••
•••••		••••	•••••	•••••	•••••	•••••		••••	• • • • • •	•••••	• • • • • •
••••	4	3	4	. 8		2	•••••	4	•••••	8	1
•••••	2	2	6	2		•••••	•••••	1	•••••	1	
1	2	4	8	••••		•••••	1	4	• • • • • •	5	•••••
1	8	4	18	1		14		5	1	5	1
							•••••	• • • • • •			•••••
1	8	8	18	1		14		5	1	5	1
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2	20	8	24	19		11		10	1	8	3
••••				1		l					•••••
•••••	1 15	-	-1 17	16		11					1
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CONTINUED.	
ARRANGEMENT-	
OF DEATH, -CLASSIFIED	
V.—CAUSES OF	
TABLE	

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	Gratiot	Hilledale.	Houghton.	Haron.	Ingham.	Ionia.	Ioseo.	Isabella.	Jackson.	Kalamazoo.	Kent.	<u></u>
			J.									
	4	7	1	2	10	6	••••	••••	12	5	14	9
-	2	6	•••••	1	8	8	•••••	••••	- 6	8	8	6
	1	1	1		2	2	•••••	••••	5	2	5	2
	1		••••	1		•••••	••••	•••••	•••••	•••••	••••	··· - ··
	•••••				• • • • • •	1			1	• • • • • • • • • • • • • • • • • • • •	1	1
	19	28	2	5	22	29	2	3	82	27	36	18
	2	4							:	1		
	7	24	2	5	22	29	2	3	30	28	36	18
	1	 				<i>.</i>			2			
	4	17		6	10	12		1	17	22	16	9
		2			1	2		1	2	4		2
.		1							2	2	1	1
	•••••	5			4				3	3	2	1
		ļ									1	
		ļ										
	3	3		3	1	2			3	1	1	8
	1	 		2	ļ				1	1		2
		6		1	4	8			6	11	11	
	l											1
-	1	10		2	2	4		2	12	11	6	8
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	1	10		2	2	4		2	12	11	6	8
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	5	17	2	6	15	14	2	 .	19	15	12	15
		ļ			2	ļ		 .	1	1	3	1
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	: 8	9	1	3	6	12	2	 	9	11	1	•
	·	ļ		1	ļ	ļ		ļ	1		1.	
	2	8	1	2	5	2	١	l	8	8	8	. •

Lenawee.	Livingston.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Monroe.	Montcalm.	Muskegon.
9	7	16	2				•••••	••••	4	6	4
7	4	8	1		•••••			•••••	2	5	8
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Washtenaw. Shiawassee. Ontonagon. St. Joseph. Van Buren. Newaygo. Clatr. Oakland. Sanilac. Tuscola. Ottawa. Oceana. TABLE V.-CAUSES OF DEATH, -CLASSIFIED ARRANGEMENT, -CONTINUED. 1.

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	DISEASES.	State.	Allegan.	Alpens.	Antrim.
	III.—4. DIGESTIVE ORGANS.				
	Totals,	240	8		=
Ä	1. Gastritis,	8	ļ	ļ	—
NG E	2. Enterits,	96			3
MET	3. Peritonitis,	9	 		—
DEATH, CLASSIFIED ABRANCEMENT, CONTINUED	4. Hernia,	10			–
Ĕ,	5. Stomach Disease, etc., (c,)	51	1		
KE	6. Hepatitis,	4			
NGE	7. Jaundice,	4			–
BBA	8. Liver Diseases, etc.,	57	1		1
A	9. Splean Disease, etc.,	1	1		····· -
Ę,	III.—5. URINABY ORGANS.				
8817	Totals,	43	1		····· -
Ž	1. Diabetes,	17	1		····-
Ţ	2. Calculus, (Stone, Gravel, etc.,)	11			·····•
TH	3. Kidney Diseases, etc.,	15			•••••
ΞĀ	III.—6. GENERATIVE ORGANS.				
	Tota's,	4			•••••
O.F	1. Ovarian Dropsy,	1			
V.—CAUSES	2. Disease of Uterus, etc ,	3	i		••••
8	III.—7. ORGANS OF LOCOMOTION.				
ပို	Totals,	41			
٨.	1. Joint Diseases, etc , (f,)	41			
	III.—8. Integumentary System.				
TABLE	Totals,	26	2		······ ·
TA	1. Phlegmon,	17	2		
	2. Ulcer,	9			
	IV.—I. DEVELOPMENTAL DISEASES OF CHILDREN.				
	Totals,	80			•••••
	1. Still-Born,	27			•••••
	2. Infantile, Premature, etc.,	81			•••••
	3. Cuyanosis,	1	 		
	4. Teething,	21			

Berry.	Bay.	Berrien.	Branch.	Calboun.	Cuase.	Cheboygan.	Clinton.	Delta.	Eston.	Emmet.	Genenee.	Grand Traverse.
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TABLE V.-CAUSES OF DEATH.-CLASSIFIED ARRANGEMENT.-COMPUMED.

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	Gratiot,	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Toeco.	Isabella.	Jackson.	Kalamazoo.	Kent	Lapeer.
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TABLE V.—CAUSES OF DEATH.—CLASSIFIED ARRANGEMENT.—CONTINUED.

	Newaygo.	Oakland.	Oceana.	Ontonagon.	Ottawa	Sanilac.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola,	Van Buren.	Washtenaw.	Тауля
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TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.		1	1		1	2	1	••••	2	1	.,		1 1
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Abrangement, Continued.	DISRASES.	State.	Allegan.	Alpens.	Antrim.
ŒMT,	IV.—2. DEVELOPMENTAL DISEASES OF ADULTS.				
ě	Totals,	91	5		••••
3	1. Paramenia,	7	 		
9	2. Child Birth, (see also Metria,)	84	5	ļ 	
CLASSIFIED A	IV.—3. DEVELOPMENTAL DISEASES OF OLD PROPILE.	239	6		_
881	1. Old Age,	ಬಳ	°	•••••	-
Ţ	IV.—4. DISEASES OF NUTRITION.				
ĭ	1. Atrophy and Debility,	67		•••••	1
Ħ	V1. ACCIDENT OR NEGLIGENCE.				
DEATH,	Totals,	352	11	1	
	1. Fracture and Contusions,	10			
OF	2. Burns and Scalds,	56	3		
ES	3. Poison,	16		1	
92	4. Drowning,	€3	1		
V.—CAUSES	5. Other Casualties.	207	7	l	
1	V.—2. Homicide	11			
	V.—3. Suicide,				
TABLE	' '	920	12		4
TA	Causes not Classified, (g,)	920	12		

- (a,) Small Pox includes Chicken Pox.
- (b.) Typhus includes Typhoid and Infantile Fevers.
- (c.) Ague includes 41 cases of Congestive Chills.
- (d.) With Remittent Fever are classed 162 cases of "Fever."
- (c.) Stomach Disease includes, also, such diseases of the bowels and other digestive organs as are not classed under specific heads.
 - (f.) Includes 35 cases of diseases of the Spine.
- (g.) "Causes not Classified," include those who died of Hemorrhage, Tumor, Inflammation, Congestion, and such other causes as are either positively unknown, or reported in such indefinite terms as to render classification impossible.

Barry.	Bay.	Berrien.	Branch.	Calboun.	Const	Съвроудал.	Clinton.	Dolta.	Eaton.	Emmet.	Genesoe.	Grand Traverse.
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TABLE V.—CAUSES OF DEATH,—CLASSIFIED ARRANGEMENT,—CONTINUED.	Gratiot	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kent.	Leger:
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Lesianew.	Lenawee.	Livingston.	Macomb.	Manistee.	Marquette.	Maaon.	Mecosta.	Menominee.	Midland.	Monroe	Montosim.	Muskegon
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	Newaygo.	Oakland.	Oceana.	Ontonagon.	Ottawa.	Sanilac.	Shlawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.
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AN ACT

TO PROVIDE FOR THE REGISTRATION OF BIRTHS, MARRIAGES AND DEATHS.

Secrior 1. The People of the State of Michigan enact, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, at the time of taking the annual assessment in each year, to ascertain by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships or cities, during the year and preceding the first Monday in April, in which such assessment is taken, together with the facts relating thereto, as are hereinafter provided for, and shall make an accurate return thereof to the county clerk in which such township or city is situated, within thirty days after completing said assessment.

Sec. 2. Every justice of the peace, minister of the Gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him, and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the Gospel, clerk or other person shall, at the time such marriage is solemnized, deliver on demand, to either of the parties so joined in marriage as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall within ninety days thereafter deliver to the clerk of the county in which such marriage took

place, a certified copy of such record, and at the same time pay to the clerk twenty-five cents for recording the same.

Sec. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages and deaths, to record the same at length, in separate books to be provided at the expense of the State, by the Secretary of State for that purpose, with proper indexes thereto. births, marriages and deaths shall be numbered and recorded alphabetically, using both the name of the bridegroom and bride in the record of marriages, in the order in which they are received by the clerk of the county; the record of the birth shall state, in separate columns, the date of the birth, the name of the child, (if it have any,) the sex of the child, the place of birth, the Christian and surnames of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: Provided, That in case the child has no Christian name, such name shall be obtained and reported to said county clerk in the next annual report of the supervisor or assessor, and such Christian name shall be distinctly designated in such report as the Christian name belonging to a child previously reported, and shall be properly entered by said county clerk in the blank left for such Christian name in his book of records. The marriages shall be recorded in the order in which they are received. The record of marriages shall state, in separate columns, the date and place of marriage, the Christian and surnames of the bridegroom and bride, the age and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death, the Christian and surname of the deceased, the sex, whether married or single, the age in years, months and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if over ten years of age, and if under that age, the names and residence of the parents, if known, and the date when such record is made. The clerks of the several counties shall annually, on or before the first day of November, make and transmit to the Secretary of State a certified copy of the records in his office, of all the births, marriages and deaths that have occurred in their several counties during the year next preceding the first Monday in April.

Sec. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act; he shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks, on or before the first day of March in each year, and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities and wards therein in their respective counties, at the same time and in the same manner that blanks for assessment rolls are delivered.

Sec. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State for that purpose, he shall prepare such tabular statements, results and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

Sec. 6. Every justice of the peace, minister of the Gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

Sec. 7. Every physician, surgeon or midwife, who shall have been in attendance upon any deceased person, shall upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor a certified statement, without fee, containing the name of the disease or cause (if known) producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall for such offense be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect in his official character.

Sec. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein, (not otherwise obtained,) from the heads of families, the keepers, overseers or superin-

tendents of asylums, hospitals, jails, prisons, workhouses, almshouses, houses of correction and similar institutions, the keepers of hotels, public and private boarding houses, and the masters or chief officers of steamboats and sail-vessels navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath, (which oath such supervisor or assessor is hereby empowered and authorized to administer,) in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpænaed (as provided for compelling the attendance of witnesses in justices' courts,) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or appearing shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had until said fine be paid, but not exceeding ninety days; and any person who after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: Provided, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

Sec. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

Sec. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen and three thousand two hundred and sixteen, of the compiled laws of 1857, be and the same are hereby repealed.

Approved March 27, 1867.

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SECOND ANNUAL REPORT

OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN,

RELATING TO THE REGISTRY AND RETURN OF

BIRTHS, MARRIAGES AND DEATHS,

FROM APRIL 5th TO DECEMBER 31st, 1868, INCLUSIVE.



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BY AUTHORITY.

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PREFACE.

STATE DEPARTMENT, MICHIGAN.

Secretary's Office, Lansing, December 31, 1869.

To His Excellency HENRY P. BALDWIN,

Governor of Michigan:

SIR—I have the honor herewith to submit the second Annual Report from this Department, of Births, Marriages, and Deaths.

This report is for only a fractional part of the year 1868—from April 5th to December 31st—in accordance with the amended law of last winter.

Hereafter, the year included in these reports, will end December 31st, instead of the first Monday of April, as under the former law.

The value of these returns, if correctly made, and the statistics compiled from them, can hardly be over-estimated, and no labor has been spared by this Department to attain the end contemplated by the law.

It is gratifying to be able to compliment most of the officials whose duty it is to collect and return the required information, upon the accuracy and promptness with which their work has been done. It would be still more gratifying to be able to report that all had performed their duty in this respect.

The cases of delinquency are exceptional, however, and doubtless are rather the result of a misapprehension of a new law than an intention to disregard it. Occasional errors are unavoidable; but as the several officers become familiar with this new duty, we may expect more accurate returns. I regret to report that in a few instances the returns of Marriages are very imperfect; whether the result of ignorance of the law or an impression on the part of the person solemnizing the marriage that its requirements are unworthy of attention, I am unable to say. A failure to make the proper certificate and return, on the part of the person solemnizing the marriage, may work great injury, not only to the parties married, but to their posterity; and it is to be regretted that any one should presume to disregard so important a provision of the law.

Full instructions, and the necessary blanks are furnished to County Clerks for distribution to Clergymen and Justices of the Peace, and to them direct from this office, on their requisition, and it would seem that no reasonable excuse could be urged for this neglect of duty.

I am indebted to Dr. George E. Ranney, representing the State Medical Society, for assistance in preparing the report of Deaths, and for the introductory remarks upon diseases.

Very respectfully,

O. L. SPAULDING, Secretary of State.

SECOND REGISTRATION REPORT.

FROM APRIL 5, TO DECEMBER 31, 1868, INCLUSIVE.

The present Report, comprising less than three-fourths of a year, cannot be made a full basis of comparison with the returns of the previous year, yet it presents many items of interest, showing that Michigan possesses a salubrious climate, an active and hardy population, and that these facts are appreciated by constantly increasing immigration.

The items contained in the following tables are gathered from a large area of territory by the numerous officers designated by the law to perform the duty, and the collection and return of the numerous facts called for, is a work that experience and the utmost care can alone render perfect. The frequent change of supervisors, assessors and county clerks will always, doubtless, be a hindering cause in the desired perfection and reliability of these reports. This can be overcome, in a measure, by an earnest effort and willing coöperation of those who are called upon to execute the law.

The careful collection and transcription of all the material facts is of cardinal importance; without this the aggregate results will be materially defective and uncertain. As years intervene, and the experience of the past furnishes a guide to greater excellence, we trust this Report may become a compendium of valuable information, useful to the whole country, and especially so to the Peninsular State.

The whole number of names returned by the several County Clerks, as registered for the period from April 5, to December 31, 1868, inclusive, was thirty-six thousand three hundred and seventy-seven (36,377), viz:

Nineteen thousand one hundred and seventy-one (19,171) children were born, (excluding still-births,) of which ten thousand one hundred and thirty-three (10,133) were males, nine thousand and three (9,003) were females, and thirty-five (35) sex not given, showing nearly as many for a period less than nine months as were returned for the entire previous year.

Ten thousand nine hundred and seventy (10,970) persons, or five thousand four hundred and eighty-five (5,485) couples were married.

The whole number of deaths returned was six thousand three hundred and twenty-six (6,326.)

The excess of births over deaths was 12,845.

DELINQUENT.

No returns have been received from Chippewa, Delta, Keweenaw, Mackinaw and Manitou counties. The township of Pentwater, in Oceana county; Ossineke, in Alpena; and Isabella and Broomfield, in Isabella, were not included in the returns from their respective counties. The third and fourth wards of the city of Ann Arbor were received too late for compilation in this Report. The counties of Alcona, Benzie, Charlevoix, Osceola and Wexford were organized under the acts of the last legislative session. Their returns are included with those of the counties to which they had formerly been attached.

The period of time comprised in the present report being fractional part of the year 1868, the returns to this office embraced the statistics of births, marriages, and deaths which occurred both prior and subsequent to the time specified by law. The work of compilation and classification was thus largely increased: 19,171 births were compiled, and 570 rejected; 5,485 marriages were compiled, and 1,420 rejected; 6,326 deaths were compiled, and 197 rejected, for the reason above stated.

BIRTHS.

Of the 19,171 children born alive, 10,133 were males, 9,003 were females, and 35 sex not given. The parents of 10,010 children were born in the United States; the parents of 6,527 children were born in foreign countries; 848 children were born of American fathers and foreign mothers; 1,394 children were born of foreign fathers and American mothers; and the nativity of the parents of 392 children was not returned.

African and Indian.—One hundred and fifty-two children (82 males and 70 females) were born of African parents, and 85 children (45 males and 40 females) were born of Indian parents.

Twins.—There were born 210 pairs of twins—420 children—of which 219 were males, and 201 were females.

Triplets.—Three sets of triplets were born, 1 in Clinton county, and 2 in Wayne county—9 children—4 boys and 5 girls.

Illegitimate.—One hundred and four children—63 males and 41 females—were returned as illegitimate.

Still-born.—Forty-six still-births are reported—27 males, 17 females, and 2 sex not given. They are not used in the tables of this report, except for classification. But 27 still-births were returned for the first report, being a gain of 19 for this. But it is evident that the return of still-births is incomplete. Massachusetts, in 1867, returned 1,007 still-births to 35,062 living births.

Returns of Still-births made to this office for the period from April 5, to December 31, 1868, inclusive:

STILL BIRTHS.

COUNTIES.	Males.	Females.	Sex not Given.	Total.
Bay		1		1
Calhoun	2	2		4
Houghton		1		.1
Ingham		1		1
Ionia	2			2
Kalamazoo			1	. 1
Kent	6	2		8
Marquette	1	1		. 2
Monroe.	1			1
Shiawassee	2		·	2
St. Clair	1		1	2
St. Joseph	1			1
Van Buren	1			1
Washtenaw		1		1
Wayne	10	8		18
m			_	-
Totals	27	17	2	46

ABLE, showing by Counties, the number of Children born of races other than white, from April 5 to December 31, 1868.

COUNTIES.	AFR	ICAN.	Ind	LAN.	Total.	
	Males.	Females.	Males.	Females.		
Allegan	2	3			5	
Antrim			2		2	
Bay	1				1	
Berrien	6	7			13	
Calhoun	6	2	2	1	11	
Cass	14	14			28	
Clinton	1				1	
Eaton		1			ī	
Emmet			24	16	40	
Genesee	1	1			2	
Gratiot	1				1	
Houghton		1	2	3	6	
Ingham	2	2		١	4	
Ionia		1			1	
Jackson	1	1			2	
Kalamazoo	4	6			10	
Kent	$\hat{2}$				2	
Leelanaw	~		3	6	9	
Lenawee	3			٩	3	
Mason	١		8	9	17	
Mecosta	1	2		9	3	
Monroe.	1	1			2	
Montcalm	1	i			2	
Newaygo	1	1			1	
Oakland	2	2		1	4	
Oceana	~	~	3		5	
			٥	2	1	
Ottawa	1				4	
Saginaw	2	2			_	
Shiawassee	1				1	
St. Clair	1				1	
Van Buren	2	7	1	1	11	
Washtenaw	4	4				
Wayne	22	12		1	35	
Totals	82	70	45	40	237	

TWINS.

Analysis, by Counties, of the birth-places of the Parents of

Twins, and the several occupations of their Fathers,

according to the returns.

Allegan—Six American, 1 Hollander, 1 German father and American mother. Five fathers are farmers, 1 engineer, 1—physician, and 1 joiner. Total, 8 pairs, or 16 children.

Barry—One American, 1 nativity of parents not given. — Fathers of both are farmers. Total, 2 pairs, or 4 children.

Bay—One American, 1 German, 1 German father and American mother, 1 Belgian father and Holland mother, 1 — Scotch father and Canadian mother. Two of the fathers are farmers, 1 laborer, 1 saloon-keeper, and 1 clerk. Total, 5 pairs, or 10 children.

Berrien—Three American, 1 African, 1 Hollander, 1 German father and American mother, 2 nativity of parents not given——Five of the fathers are farmers, 1 carpenter, 1 barber, and 1 a——miller. Total, 8 pairs, or 16 children.

Branch—Four pairs, all Americans. Three fathers are farmers, and 1 joiner. Eight children.

Calhoun—Six American, 1 Irish, 1 American father and English mother. Of the fathers, 5 are farmers, 1 laborer, 1 cooper, and 1 salesman. Total, 8 pairs, or 16 children.

Cass—One German, 1 American father and English mother—One father is a farmer, the other, farmer and mason. Total—2 pairs, or 4 children.

Charlevoix—One pair of twins, American parents, and father a farmer.

Clinton—Three American, 3 English fathers and American mothers. All farmers. Total, 6 pairs, or 12 children.

Eaton—All American parents, and all farmers. Total, 3 pairs, or 6 children.

BIRTHS. 11

Genesee—Five American, 1 Irish. Five fathers are farmers, and 1 a machinist. Total, 6 pairs, or 12 children.

Grand Traverse—Four American, 1 Nova Scotia father and English mother. Of the fathers, 4 are farmers, and 1 wagon maker. Total, 5 pairs, or 10 children.

Hillsdale—All of American parents. Three fathers are farmers, 1 artist, and 1 laborer. Total, 5 pairs, or 10 children.

Houghton—One American, 1 German. One father is an engine driver, the other a farmer. Total, 2 pairs, or 4 children.

Huron—One English, 1 German. Fathers—1 merchant tailor, 1 laborer.

Ingham—Five American, 1 African, 1 nativity not given. Of the fathers, 4 are farmers, 1 miller, 1 laborer, and 1 joiner. Total, 7 pairs, or 14 children.

Ionia—Three American, 1 English father and American mother, 1 Scotch father and American mother. Two fathers are farmers, 1 blacksmith, 1 miller, and 1 lumberman. Total, 5 pairs, or 10 children.

Isabella—One pair, Canadian parents, and father a merchant. Jackson—Two American, 1 German, 1 American father and English mother. Three fathers are farmers, and 1 blacksmith. Total, 4 pairs, or 8 children.

Kalamazoo—Two Americans and 1 African. All the fathers are farmers. Total, 3 pairs, or 6 children.

Kent—Two Americans, 2 Canadians, and 1 American father and Canadian mother. Total, 5 pairs, or 10 children.

Lapeer—One American, 2 Canadians, 1 Irish, and 1 nativity unknown. Four fathers are farmers, and 1 a mason. Total, 5 pairs, or 10 children.

Leelanaw—One American, 1 German father and American mother. The fathers are farmers. Total, 2 pairs, or 4 children.

Lenawee—Three American, 1 Irish, 1 German, 1 American father and English mother, 1 nativity unknown. Four fathers

are farmers, 2 laborers, and 1 machinist. Total, 7 pairs, or 14 children.

Livingston—Two Americans and 2 Germans. The fathers are farmers. Total, 4 pairs, or 8 children.

Macomb—Three Americans and 1 German. Three fathers are farmers and 1 a brewer. Total, 4 pairs, or 8 children.

Manistee—One pair, French father and American mother. The father is a laborer.

Marquette—One pair, American parents, and father a laborer.
 Mason—One American and 1 American father and German mother. Fathers are farmers. Total, 2 pairs, or 4 children.

Mecosta—One pair, American father and French mother. Father is a farmer.

Monroe—Six American and 4 German. Eight fathers are farmers, 1 shoemaker, and 1 a butcher. Total, 10 pairs, or 20 children.

Muskegon—One pair, English parents; father a mason and farmer.

Newaygo-One pair, Canadian parents; father a butcher.

Oakland—Three American, 1 Isle of Man, 1 English, I English father and American mother, 1 English mother, nativity of father not given. Five fathers are farmers, 1 mason, 1 laborer. Total, 7 pairs, or 14 children.

Oceana—One American, 1 pair illegitimate twins, American mother. One father, mechanic; nativity and occupation of the other not given. Total, 2 pairs, or 4 children.

Ottawa—Two American, 4 Hollander, 1 Scotch, 1 Swiss. Two fathers are farmers, 4 laborers, 1 carpenter, and 1 merchant. Total, 8 pairs, or 16 children.

Saginaw—One American, 1 Canadian, 1 German, 1 African, 1 American father and Canadian mother, 1 Irish father and Canadian mother. Of the fathers, 3 are farmers, 1 painter, 1 lumberman, and 1 blacksmith. Total, 6 pairs, or 12 children.

Sanilac—One American, 3 Canadian. Three fathers are farmers, and 1 a laborer. Total, 4 pairs, or 8 children.

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Shiawassee—Five American and 1 German. Four fathers are farmers, and 2 merchants. Total, 6 pairs, or 12 children.

St. Clair—Three American, 1 Canadian, 1 Irish father and Scotch mother, 1 Canadian father and English mother, 1 Canadian father and American mother. Five fathers are farmers, 1 fireman, and 1 deputy sheriff. Total, 7 pairs, or 14 children.

St. Joseph—Three American, 1 English father and American mother. Three fathers are farmers, 1 a mechanic. Total, 4 pairs, or 8 children.

Tuscola—Two pairs, both American parents, and the fathers of both are farmers.

Van Buren—All American parents. Two fathers are farmers, and 1 a carpenter. Total, 3 pairs, or 6 children.

Washtenaw—Two German, 1 Irish, and 1 English father and American mother. Three fathers are farmers, and 1 a laborer. Total, 4 pairs, or 8 children.

Wayne—Seven American, 6 German, 2 Canadian, 1 Russian, 1 Irish, 1 Bohemian, 1 French, 1 French father and American mother, 1 German father and American mother, 1 Canadian father and American mother. The nativity of the parents of 2 pairs are not given. If the returns are credible evidence, 1 pair of twins has 4 parents; the first two are Germans, and the father a painter; the other two are Canadians, and the father a blacksmith. Occupations of fathers—3 farmers, 3 laborers, 1 printer, 1 painter, 1 lawyer, 1 barber, 1 teamster, 1 mason, 1 sailor, 1 tinsmith, 1 ship carpenter, 1 hotel-keeper, 1 saloon keeper, 1 butcher, 1 chemist, 1 bar-keeper, 1 clerk, and 1 who is both painter and blacksmith. Total, 25 pairs, or 50 children.

TRIPLETS.

Three sets of triplets are returned, viz:

- 1. One boy and two girls, born in Detroit May 5, 1868. Father a Canadian, and shoemaker; mother a Tennesseean.
- 2. Two boys and one girl, born in Detroit May 28, 1868. Parents Scotch, and father a laborer.

3. One boy and two girls, born in St. Johns, Clinton county, _____ June 10, 1868. Parents Irish, and father a shoemaker.

ILLEGITIMATE CHILDREN.

Analysis, by Counties, of the birth-places of the Parents of Illegitimate Children, according to the returns.

Allegan—Six children; 3 American, 1 Swiss father and German mother, 1 American mother, 1 nativity of parents—not given.

Barry-Two children; the parents of both are American.

Berrien—Three children; 2 American mothers and 1 Cana——dian mother. Nativity of fathers not given.

Branch—Four children; 2 American parents, and 2 American mothers.

Calhoun—Four children; 1 American, 2 American mothers.

1 African mother. Nativity of the fathers not given. Three—
of the children were born at the county poor-house.

Cass—Three children; 2 African mothers, 1 nativity of mother not given. Nativity of fathers not returned.

Clinton-One child; American.

Emmet—Seven children; 6 Indian parents, 1 American father and Indian mother.

Genesee—Two children; both of American mothers. Nativity of fathers not returned.

Gratiot—Two children; 1 American mother, 1 not given—Nativity of fathers not returned.

Ingham—One child; American parents.

Ionia—Two children; 1 American mother, and 1 nativity of neither parent given.

Jackson—Five children; 3 American, 1 Irish father and American mother, 1 German mother.

Kalamazoo-One child; American parents.

Kent—One child; American mother. Nativity of father not returned.

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Lapeer — Three children; 2 American and 1 Canadian parents.

Lenawee-One child; nativity of parents not given.

Livingston—Three children; all have American mothers. Nativity of fathers not returned.

Macomb—Four children; 2 American, 1 English mother, 1 German mother. Nativity of fathers not given.

Marquette—One child; French parents.

Mason-Two children; Indian parents.

Mecosta—One child; Canadian parents.

Monroe—Five children; 2 American parents, 2 American mothers, 1 German mother.

Montcalm-Two children; 1 American, 1 Irish.

Muskeyon—Three children; 1 American; 1 American mother, 1 parents not named.

Oakland—Two children; American mothers. Nativity of fathers unknown.

Oceana—Two children, twins; American mother. Nativity of father not given.

Ontonagon—One child; Irish mother. No other particulars returned.

Ottawa—One child; Holland mother. No other facts given. Sanilac—Four children; 2 Canadian, 1 English mother, 1 parents not given.

Shiawassee—Two children; 1 American, 1 American mother, 1 father's nativity not stated.

St. Clair—Four children; 3 American, 1 Canadian father and American mother.

Van Buren—One child; American mother. No particulars about the father.

Washtenaw—Two children; 1 German, 1 American mother. Nativity of one father not given.

Wayne—Sixteen children; 2 American parents, 1 African, 1 Scotch, 1 American mother. Nativity of the parents of 11 not given. Ten of these children, including a pair of twins, are returned as born at the poor-house.

Quarter anding Tune 1868

BIRTHS FOR SPECIFIED PERIODS.

Quarter	enaing	June, 1808	9,900
"	**	September, 1868	6,924
**	**	December, 1868	6,628
Average	births	per month	2,130
**	66	" week	497
66	**	" day	71
The g	greatest	t number born in one month was in A	ugust,
2,399; a	nd the	least, in April, 1,607.	
The p	ercenta	age of the parents of living children bor	n is—
America	n		52.21
Foreign			34.05
America	n fathe	er and foreign mother	4.42
Foreign	father	and American mother	7.27

Compared with last year's report, the proportion of American births is 6.07 per cent. less; the proportion of foreign births is 7.78 per cent. more; the proportion of American fathers and foreign mothers is 0.08 per cent. less; the proportion of foreign fathers and American mothers is 0.12 per centmore; and the proportion of those whose nativity is unknown is 0.30 per cent. less,

The following inferences are suggested:

Unknown nativity of parents

- 1. The decreasing percentage returned as "unknown," indicates greater accuracy in collecting the returns.
- 2. That there is a large increase of foreign immigration to this State.

The returns show that the counties bordering on the great lakes and their connecting rivers are receiving large accessions of population from Canada. In the lumbering, and more especially the mining regions, the increase of foreign population of various nationalities is strongly indicated.

An analysis of the nativity of the parents of the children

born, as returned from Houghton, the most populous of the mining counties, shows that

17 were American,

46 " German,

43 " English,

76 " Irish,

5 " Scotch,

2 " Swedes,

20 " Canadians,

1 was French,

2 were American fathers and foreign mothers,

6 " Foreign fathers and American mothers,

22 " Foreigners intermarried.

T tal, 240—

Of which but a fraction over 7 per cent. were born in America.

The proportion of triplets to the whole number of children born in Michigan, is nearly 1 to 2,130.

The proportion of twins to the whole number is 1 to 45%.

The proportion of illegitimate to the whole number is nearly to 180.

The proportion of African children to the whole number of children born is as 1 to 126.

The proportion of Indian children to the whole number is about 1 to 2351.

TABLE I.

BIRTHS by Counties—Proportion of Males to Females.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Male to 100 Females.
Allegan	52.85	47.15	119
Alpena	86.84	63.16	58
Antrim	75.76	24.24	812 2
Barry	51.78	48.22	107 -7
Bay	58.81	46.19	116 6
Berrien	58.84	46.16	117
Branch	49.87	50.18	99
Calhoun	58.76	46.24	116
Cass	49.70	50.80	96
Charlevoix	48.57	51.48	94
Cheboygan	14.29	85.71	1
Clinton	58.18	46.87	118
Eaton	52.26	47.74	109
Emmet	60.00	40.00	150
Genesee	51.49	48,51	106
Grand Traverse	47.06	52.94	86
Gratiot	55.74	44.26	195
Hillsdale	49.26	50.74	97
Houghton	55.88	44.17	126
Huron	54.82	45,68	118
Ingham	52.01	47.99	108
Ionia	55.07	44.98	199
Iosco	82.48	67.57	48
Isabella	60,26	89.74	151
Jackson	50.78	49.27	102
Kalamazoo	54.95	45.05	191
Xent	54.81	45.69	118
Lapeer	47.72	52.28	91

TABLE I-CONTINUED.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Females.
Coelanaw	48.04	51.96	99
Lenawee	51.54	48.46	106
Livingston	34.07	45.98	117
Macomb	55.86	44.14	126
Manistee	56.67	48.88	180
Marquette	51.85	48.15	107
Mason	55.00	45.00	125
Mecosta	51.87	48.68	107
Menominee	85.71	64.29	50
Midland	58.85	46.15	117
Monroe	52.92	47.08	119
Montcalm	48.76	51.24	98
Muskegon	52.28	47.77	109
Newaygo	55.04	44.96	129
_Oakland	57.87	42.18	187
Oceana	58.88	41.67	140
◆Ontonagon	57.55	42.45	180
Ottawa	50.90	49.10	108
Saginaw	50.78	49.22	108
.Sanilac	56.48	48.52	129
Shiawassee	62.21	87.79	181
St. Clair	58.28	41.77	189
8t. Joseph	45.24	54.76	85
Tuscols	50.26	49.74	101
Van Buren	51.42	48.58	100
Washtenaw	58.41	46.59	114
Wayne	58.26	46.74	118
Wexford	64.29	85.71	186
State	52.95	47.05	118

SECOND REGISTRATION REPORT.

TABLE II.—BIRTHS.

HIBITING the Sex, condition, (as twin or illegitimate), and Parentage of Children born in the several Counties, during the period from April 5th to December 31st, 1868, inclusive.

	Births.		Sex.		(COND	ITION	r.	NAT	IVITY	o r P	ARENTO	.
COUNTIES	rof		w.	W.	Tw	ins.	Illeg	mt	ģ	d	Fa. Mo.	Fa. Mo.	
	Number of Births.	Males.	Females.	Unknown	Males.	Fem.	Males.	Fem.	Americ'n.	Foreign.	For. P	For.]	Onknown On Only
Allegan	474	250	228	1	8	8	8	8	299	111	20	87	-
Alpena	88	14	24						7	19	4	8	
Antrim	88	25	8				 		17	9	2	8	
Barry	889	.175	168	1	8	1	2		208	48	9	26	500
Вау	210	118	97		5	5			58	124	12	19	9
Berrien	549	295	258	1	9	7	2	1	828	115	28	40	43
Branch	862	180	181	1	8	5	4		808	28	14	. 18	4
Calhoun	559	800	25 8	1	10	6	4		408	94	24	87	1
Cass	887	167	169	1	8	1	2	1	281	29	8	16	8
Charlevoix.	86	17	18	1	1	1			18	12	5	5	1
Cheboygan.	7	1	6						1	2	2	2	
Clinton	485	229	202	4	10	2	1		298	75	22	42	8
Eaton	899	208	190	1	8	8			844	19	11	28	2
Emmet	40	24	16				4	8	88		2		
Genesee	586	276	260		5	7	1	1	866	84	88	41	12
Grand Trav.	102	48	54		6	4			55	29	4	7	7
Gratiot	188	102	81				1	1	142	21	2	16	2
Hillsdale	408	201	207		4	6			848	28	10	18	2
Houghton	240	184	106		8	1			17	214	2	6	1
Huron	162	88	74		1	8			11	185	6	10	. —.
Ingham	448	288	215		9	5		1	848	48	15	29	18
Ionia	491	266	217	8	6	4		2	857	60	21	45	8
Iosco	87	12	25						12	19	8	. 8	
Isabella	78	47	81		1	1			58	. 6	2	4	18
Jackson	479	248	286		5	8	5		826	94	28	88	8
Kalamazoo.	475	261	214		1	5		1	821	90	21	88	10
Kent	697	878	818	1	8	7		1	897	225	28	45	7
Lapeer	829	157	172	<u></u>	4	6	2	1	151	87	25	45	9 1

TABLE II-CONTINUED.

	umber of Births.	S	EX.		C	ONDI	TION		NAT	IVITY	or P	RENT	8.
COUNTIES	rof		#	VП	Twi	ns.	Illeg	mte	ri I	2	60	ei o	VB
	Numbe	Males.	Females.	Unknown	Males.	Fem.	Males.	Fem.	Americ'n.	Foreign.	Am. Fa. For. Mo.	For. Fa. Am. Mo.	Unknown
Leelanaw	102	49	58		2	2			88	50	8	11	
Lena Wee	558	285	268		5	9		1	371	116	19	27	20
Livingston.	273	146	124	8	5	8		8	195	88	9	21	10
Macomb	512	286	226		3	5	2	1	212	205	88	62	
Manistee	90	51	39		2				32	33	15	9	1
Marquette.	162	84	78		2		1		15	147			
Muson	80	44	36		2	2	1	1	48	23	6	5	3
Mecosta	146	75	71	****	9		1		77	41	18	9	1
Menominee	28	10	18						7	17	8	1	
Midland	39	21	18						25	9	8	2	
Monroe	565	299	266		14	6	2	8	382	167	22	41	8
Montcalm	201	98	108				1	1	139	33	12	17	
Muskegon.	315	164	150	1			1	2	118	141	20	33	3
Newaygo	129	71	58		1	1			90	25	6	8	
Oakland	491	283	206	2	5	9	2	1	320	88	80	45	18
Oceana	121	70	50	1	8	1	1	1	80	25	10	6	
Ontonagon.	106	61	45				1		5	94	8	4	
Ottawa	554	282	272		8	8	1		187	814	18	28	12
Saginaw	642	826	316		6	6			184	369	32	48	9
Sanilac	301	170	131		8	5	3	1	25	219	22	34	1
Shiawassee.	337	191	146		7	5	1	1	281	68	11	24	5
8t, Clair	680	896	284		7	7	4		187	428	49	64	2
8t. Joseph.	337	152	184	1	4	4			259	57	5	15	1
Cuscola	189	95	94		2	2			101	41	11	18	18
Van Buren	457	285	222		8	8		1	361	42	20	29	1
Washtenaw	455	248	212		4	4	100	2	217	164	28	45	1
Wayne	2,809	1,498	1,810	6	22	28	10	6	706	1,761	97	184	61
Wexford	14	9	5						11	2	100	1	-5.0
State	19,171	10,183	9,003	35	219	201	68	41	10,010	6,527	848	1,894	39

¹The returns from the 8d and 4th wards of the city of Ann Arbor, were received too late for compilation.

TABLE III.—BIRTHS.

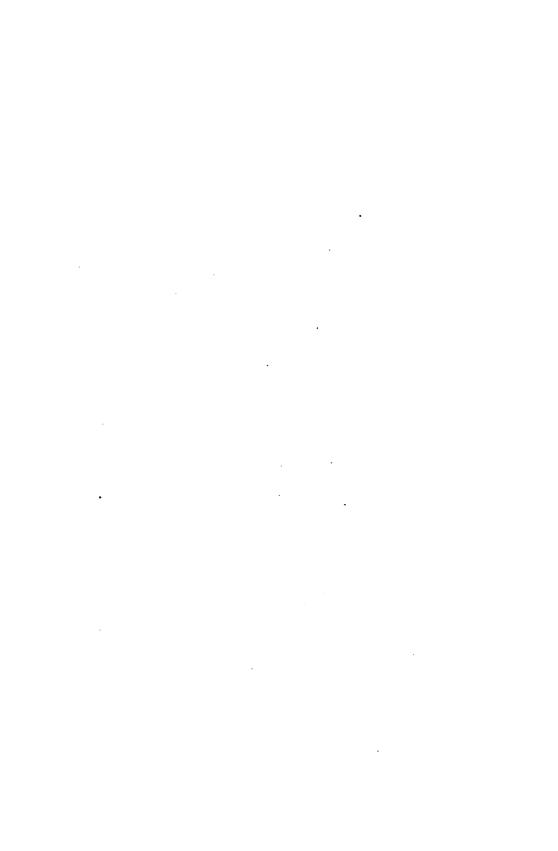
EXHIBITING, by Counties, the number of Children born in each Month, during the period from April 5th to December 31st, 1868.

					ľNOM	гнs.				
COUNTIES.	April.	Мау.	Jane.	·July.	August.	September.	October.	November.	December.	Unknown.
Allegan	85	47	52	59	60	64	54	46	50	7
Alpena	2	6	1	2	5	8	7	6	6	
Antrim	4	8	8	8	2	4	6	2	6	
Barry	25	. 87	28	40	41	59	88	82	89	
Bay	15	22	82	25	25	81	22	19	19	
Berrien	40	70	58	69	6 8	-65	50	61	78	
Branch	28	87	89	87	58	42	47	48	41	· ··
Calhoun	87	52	55	78	79	66	68	61	68	· ··
Cass	19	29	41	48	47	48	48	82	84	1
Charlevoix	2	4	7	. 2	5	2	. 8	6	5	
Cheboygan		1	2		1	1	1	1		·
Clinton	50	61	55	47	85	55	56	27	45	4
Eaton	28	41	48	50	62	48	87	· 48	42	
Emmet	1	2	5	5	6	4	. 4	2	11	
Genesee	47	66	56	58	66	72	59	55	62	
Grand Traverse	10	16	11	10	17	9	14	9	6	
Gratiot	. 12	24	21	22	28	21	20	17	28	
Hillsdale	27	. 54	41	61	45	. 42	49	88	50	. 1
Houghton	14	25	25	27	81	24	25	84	85	
Huron	8	24	21	20	18	17	16	20	18	
Ingham	46	41	50	41	59	61	52	48	54	1
Ionia	48	56	48	58	81	61	51	52	46	 -
Iosco	6	5	4	4	11	4		1	2	
Isabella	4	11	9	6	8	12	7	11	10	
Jackson	88	49	49	65	51	56	60	59	55_	.8
Kalamazoo	87	50	47	42	62	58	68	50	66	
Kent	42	70	64	71	95	102	78	86	86	

23

TABLE III—CONTINUED.

					ATINU					
				3	MONT	es.				
COUNTIES.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Lapeer	29	81	88	48	42	41	81	40	88	1
Leelanaw	8	12	12	16	16	9	10	11	8	
Lenawee	25	54	56	49	70	74	65	87	72	1
Livingston	17	84	18	86	82	88	84	84	80	
Macomb	89	41	61	60	71	60	66	60	54	
Manistee	11	2	6	12	14	15	15	9	6	
Marquette	16	12	18	18	19	20	28	18	18	
Mason	12	12	12	5	8	12	4	8	7	
Mecosta.	15	16	11	18	17	16	20	18	15	
Menominee	8	2	8	6	8	6	2		8	
Midland	8	8	8	8	4	6	4	2	6	
Monroe.	45	47	48	68	78	74	88	59	72	1
MOD tealm	8	22	16	85	82	25	16	24	28	
A Regon.	84	27	21	89	59	87	40	82	26	 -
Waygo	11	9	17	15	18	21	19	8	11	
Lland	46	58	89	57	61	64	68	61	46	1
Ceana	12	. 14	19	10	21	16	15	9	5	
tonagon	6	8	18	12	15	12	10	14	16	
O _{ttawa}	87	61	60	64	68	70	65	60	67	2
8aginaw	51	79	74	72	79	74	78	78	61	1
Sanilac	82	88	88	84	89	80	26	45	24	
Shiawassee	25	42	86	87	41	87	47	80	42	 -
8t. Clair	56	70	64	74	90	84	75	85	82	 -
8t. Joseph	27	84	89	28	42	45	48	25	46	8
Tuscola	19	28	21	19	17	22	17	17	29	
Van Buren	24	44	49	52	62	68	52	58	51	2
Washtenaw	85	48	48	52	49	71	49	50	58	
Wayne	848	290	287	289	279	293	884	810	429	
Wexford	8	1	5		2	1		1	1	
State	1,607	2,087	1,944	2,163	2,899	2,862	2,246	2,099	2,288	81



MARRIAGES.

The number of marriages from April 5 to December 31, 868, was 5,485, or 10,970 persons married. Three thousand hree hundred and forty-one couples were born in the United states; 1,022 couples were born in various Foreign countries; 24 couples were American male, and Foreign female; 596 couples were Foreign male, and American female; the nativity of 202 couples was not stated in the returns.

Fifty-two African and 25 Indian couples were married.

Two thousand nine hundred and nineteen persons were married, under 21 years of age, as follows:

Two hundred and seventeen males, aged 20; 105 males, aged 19; 37 males, aged 18; and 5 males, aged 17—total, 364.

Five hundred and thirty-eight females, aged 20; 589 females, aged 19; 631 females, aged 18; 398 females, aged 17; 331 females, aged 16; 58 females, aged 15; 8 females, aged 14; and 2 females, aged 13—total, 2,555.

The largest number of persons (4,160) were married between the ages of 20 and 25; the second greater number (2,328) between the ages of 25 and 30; and 2,163 were married under 20 years of age. Upon mature consideration—it is fair to infer—two veterans married after passing the age of eighty years.

The greatest monthly return of marriages was for October —738; the least number was for December—524.

The number of marriages for each quarter, is as follows:

Quarter	ending	June, 1868	1,66	7
"	"	September, 1868	1,88	6
"	"	December, 1868	1,92	4
Date of	marriag	ge not stated	=	8

The following analysis, by counties, of numerous marriages =s, exhibits disparity of ages in some parties, youthful ardor in many, mature consideration in others, and a high estimatio of matrimonial alliances by all:

Antrim-Man aged 61, married to woman aged 26.

Barry-Man 78, woman 66.

Berrien-Man 74, woman 23.

Branch-Man 74, woman 75.

Cass-Man 74, woman 53.

Eaton—Boy 18, girl 16; boy 17, girl 16; boy 18, woman 37.

Emmet—Boy 18, girl 16, both Indians; Indian boy 19—half-breed girl, aged 13.

Genesec-Man 27, girl 15.

Grand Traverse—Man 46, girl 18; man 26, girl 15; man 50, girl 20.

Gratiot-Man 63, woman 35; boy 19, girl 15.

Houghton—Man 22, girl 15; man 21, girl 15; man 22, girl 13.

Ingham-Man 74, woman 68; man 55, woman 20.

Ionia-Man 46, girl 17.

Isabella-Man 73, woman 49; Indian 80, squaw 30.

Jackson-Man 31, girl 14.

Kalamazoo—Man 75, woman 67; man 75, woman 58; man 73, woman 50.

Kent-Boy 18, girl 16.

Lapeer-Boy 17, girl 17.

Lenawee-Man 76, woman 62; man 80, woman 71.

Macomb-Man 50, woman 20.

Mason—Boy 18, girl 15.

Monroe-Man 68, woman 25.

Ottawa-Man 38, woman 60.

St. Joseph—Man 75, woman 50; man 45, woman 18. Wayne—Man 79, woman 52.

The following is the percentage of nativities of persons married, viz:

American	60.93
Foreign	18.63
American male and Foreign female	5.90
Foreign male and American female	
Nativity unknown	3.68

This also shows a gratifying decrease of the number returned as unknown, compared with last year's report, and a consequent increase of all other classes known.

The number of Indians married, in proportion to the whole number of marriages, is as 1 to 219 2-5.

The number of colored persons married, in proportion to all marriages, is a fraction less than 1 to $105\frac{1}{2}$.

The following analysis shows the percentage of persons married at certain periods of life, including both sexes:

Unde	r 20) y	ear	3		19.72
From	20	to	25	years		37.93
"	2 5	to	3 0	66	`	21.23
46	3 0	to	35	"		7.80
46	35	to	4 0	"		4.35
"	40	to	45	"		2.47
"	45	to	50	"		1.82
46	5 0	to	5 5	"		96
44	55	to	60	66		88
46	60	to	65	"		50
"	65	to	70	"		29
44	70	to	75	"		9
"			80			6
Over	80	yea	rs_			2
Unkn	ow1	n a	age	8		1.88

The following comprehensive table exhibits the ages, respec-

tively, of all the parties married during the time embraced impuths report:

AGES OF MALES.	Ages of Females.														
	Under 20.	20 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	75 to 80.	Unknown.	Total Males.
Under 20	110	30	5	1	1									2	149
20 to 25	1161	863	126	24	5									10	2189
25 to 30	555	696	284	42	11	5	1		11					11	1605
30 to 35	136	227	136	76	19	2									596
35 to 40	38	77	89	51	44	11	2			1				1	314
40 to 45	11	42	45	21	33	24	4	2					-2		182
45 to 50	6	17	19	21	19	19	21	4							126
50 to 55	1	4	10	12	17	7	16	7	2	2	4,0				78
55 to 60	1	3	5	6	9	11	15	8	5	2	2				67
30 to 65			2	4	3	5	10	4	13	3	1			:.	45
65 to 70		2	1	1	2	6	3		7	1		1		1	25
70 to 75		1					1	2	1		2		1	****	8
75 to 80					-44		44	2	1	1	2				6
Over 80				1								1		****	2
Unknown	1	1	1	1										89	93

6.63 per cent. of the males, or about 1 in 15, were married under the age of 21 years.

46.58 per cent. of the females, or nearly 1 in 2 1-5, were married before reaching the 21st year.

In Massachusetts, in 1867, but 1.6 per cent of the males, and 19.9 per cent of the females, were married before the age of 21 years, exhibiting a very great disparity in the two States.

TABLE I.—MARRIAGES.

Showing, by Counties, the number of Marriages in which the Races of the Parties were other than White.

	RACES.			
COUNTIES.	African.	Indian.		
Bay	1			
Berrien	9			
Calhoun	2			
Cass.	13			
Eaton	1			
Emmet		8		
Genesee	3			
Isabella		(
Kalamazoo	5			
Leelanaw		(
Lenawee	1			
Midland		1		
Oakland	5			
Oceana		į.		
Ontonagon		1		
Saginaw	1			
Shiawassee	1			
Washtenaw	4			
Wayne	6			
State	52	28		

TABLE II.—MARRIAGES.

DISTINGUISHING, by Counties, and by Months, the number of Marriages Registered from April 5 to December 31, 1868, inclusive.

·					Mont	на.						 •
COUNTIES.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.		No. of Marriages.
Allegan	18	28	12	22	16	19	8	15	2			140
Alpena	1	1	1		8	5	8	4			Ĺ	18
Antrim	1	1	1	8	8	1	2	1	1			14
Barry	9	18	12	16	16	12	9	10	5			102
Вау	11	19	12	10	12	9	8	8	18		1	102
Berrien	81	85	28	88	46	87	25	18	9		1	262
Branch	18	25	17	15	18	20	21	22	12		3	168
Calhoun	22	24	17	15	17	19	27	19	9			100
Cass	6	16	14	8	12	19	20	11	7			118
Cheboygan		1					2	4	1			8
Clinton	17	18	18	14	10	14	18	22	24		;	150
Eaton	14	8	10	8	7	11	12	12	6			88
Emmet	1	1	1	2		1	1	5	1		- 1	18
Genesee	24	19	16	14	12	24	17	12	8			146
Gd. Traverse	2	7	1	5	8	7	s	8	4		- 1	40
Gratiot	6	5	5	8	6	5	9	8	12		1	64
Hillsdale	12	20	19	23	9	21	20	30	8		- [163
Houghton		8	4	5	7	6	9	10	8	1	-	<i>5</i> 8
Huron	9	6	4	4	4	8	2	5	2			89
Ingham	1	2	1	8	8	4	15	14	22		1	65
Ionia	9	17	18	15	16	s	19	22	9	1	12	29
Iosco		2	1	2	1		2	1	1		1	10
Isabella	4	4	2	7	5	4	4	8			*	8
Jackson	18	14	15	21	11	10	18	14	8		19	4
Kalamazoo	18	17	16	15	18	21	26	28	20	1	170	
Kent	18	29	25	88	24	44	45	47	51	1	81	
Lapeer	15	12	5	14	7	15	9	2	8	۱	8	7

TABLE II—CONTINUED.

											
					Монтн	8.				•	lges.
TIES.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.	No. of Marriages.
w	2	5	2	1	8	4	4	5	2		88
e	24	12	19	80	14	28	19	21	6	. 2	175
ton	7	18	5	9	2	8	18	6	18		81
b	16	14	10	18	12	11	14	7	10		107
:e			1			1	8	2	2		9
tte	2	2		2	8	17	6	5	1		48
	1	2		4	1	8	4	1			16
	4	8	2	2	1	18	5	8	2		88
inee		4	8		1			1	1		10
1	2	2	2		4		2	8	1		16
	16	9	6	10	16	16	9	7			89
l m	9	6	5	12	8	7	7	. 2	4		58
on	1			8	5	6	18	11	8		47
о	1	7	4	4	3	9	6	2	5		41
1	1	1	3	2	4	14	26	16	87	<u></u>	104
	5	6	5	6	6	6	9	8	6		57
30n	1		1	2	2		1				7
	16	14	18	28	9	21	21	15	14		146
V	4	8	9	10	4	20	24	40	88		152
	10	10	4	9	5	10	8	8	8		67
see	8	9	8	16	17	18	18	5	86		180
r	28	19	10	32	24	27	22	18	11		191
ph	14	12	11	21	21	28	22	85	12		171
,		2	4	7	4	6	7	5	11		46
ren	17	16	11	14	16	11	24	8	10		127
naw	28	23	15	18	14	19	18	20	14		169
•	67	60	74	65	45	81	79	60	81	2	564
	569	611	487	635	588	718	788	662	524	8	5485

TABLE III.—MARRIAGES.

DISTINGUISHING, by Counties, the Nativities and Ages, in years, of parties Married, from April 5th to December 31st, 1868, inclusive.

			NATI	Nativity.								AGES IN YEARS	IN Y	EARS						
COUNTIES.	No. Couples.	Атенсап.	Foreign.	Amer. Males, and For. Females.	For. Males, and Am. Females.	Опкпочи.	Under twenty.	20 to 25.	.08 ot 88.	80 to 85.	82 to 40.	क्ष का विक	45 to 56.	56 to 60.	,39 ot 08	.07 of 88	70 to 15.	75 to 80.	.08 тэтО	Опкпочп.
Allegan	140	8	12	9	8	8	8	86	8	88	12	: E-		, so	61	"				
Alpena	18	1	10	•	4		•	18	6	4	80	=	<u>:</u>	_ <u> </u>						
Antrim	7	4	61	4	4		۲-	12	ю	61	-	$\frac{\cdot}{1}$:	-	•					
Barry	102	8	4		2	-	28	23	8	19	Ξ	4	20	8	*					
Bay	102	85	88	20	œ	7	8	2	23	19	Ħ	t →	- 63		긒					4
Berrien	262	202	88	14	15	∞ −	182	206	104	8	18	- 27	00	4	61	_				∞
Branch	168	150	4	4	6		88	121	8	19	Ħ	13	9		-					
Calhoun	188	127	6	œ	16	6	47	189	8	88	16	- 6-	∞	-1-	- 03	- <u>-</u> -				4
Саяв	118	100		61	10	-	8	101	47	15	11	æ	_	93			01	<u>:</u>		ì
Cheboygan	œ	4	П	1	01		00	20	80	Ì	+	$\frac{\cdot}{1}$	\div	$\frac{\cdot}{\cdot}$	- :					
Cilnton	32	118	•	ĸ	15	11	75	124	\$	S	16	-	9	-	1					•
Eston,	-88	E	01		•	7-	\$	4	86	12	2	~	<u>_</u>	_					_[_:

		ļ							,	۰											
				•	•	8	Ξ	•	÷		÷	-	<u>:</u>		-		1		<u>!</u>	<u>:</u>	
Emmet	18:	2	~ ·	A	•			_	-	-	_	_	_	_	_	_					
Genese	146	108	10	4	18	60	5	118	88		2	<u></u>		63		-				_	
Grand Traverse	4	12	00	69	æ		18	8	13	61	4		_	<u> </u>	61			1		i	
Gratiot	\$	8	-	ю	ø	61	4	8	11	9	9	=	2		61	<u> </u>		-		&	
Cr Hillsdale	162	142	*	O1	00	10	8	142	8	83	6	9	- 2	- 67	1		:	:	-	63	
Houghton.	28	6	3	-	4	4	27	88	क्ष	10	۲-	-						-		14	
Haron	8	4	55	4	6		8	63	19	9	8		_				-	-		i	
Ingham	\$	8	×	61	61	80	12	28	ĸ	12	4	-	8	4	~	64	_	!		ŧ	
Ionia	129	8	8	ø	14	1-	19	102	-64	19	9	9		~ ~	80	-	1	1		∞	
Товсо	-01	63	9		61		4	1-	9	8	÷	<u> </u>	<u>.</u>					1		į	
Isabella	**	8	i	-	61	Ī	55	20	6	20	80	63						1	1	i	
Jackson	124	16	12	61	14	10	4	118	4	22	6	-	<u>-</u>				-	1		63	
Kalamazoo.	170	129	12	9	22	61	8	125	E	83	81	<u> </u>		2	C1	69		C1		r)	
Kent	817	190	8	19	94	64	118	238	125	28	-	18	16 8	80	1-		Н			7	
Lapeer	18	\$	18	=	15	ø	4	7	88	12	9	-	61				:			i	
Leelanaw	8	15	10	80	4	-	15	8	=	-	63	<u>:</u>		- 67		_	1			-	
Lenawee	175	181	11	9	12	6	8	142	82	12	- 12	9	9		-	1	_	_	1	×c	
Livingston	81	28	xo	8	14	-	83	8	37	19	9	4	_			<u>:</u>		-	:	i	
Macomb	107	28	75	14	19	-	82	16	\$	16	8		- A			1	-			-	
Manistee	6	61	4		တ		8	t-	4	8	-	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	!	<u> </u>		<u> </u>	
Marquette	8	Ξ	88	-	8		15	83	11	8	63	-	-		<u>i</u>	<u> </u>		<u>:</u>	1	2	
Mason	16	9	80	61	_		11	6	10	=	4	=		_							

TABLE III-CONTINUED.

			Nativity.	IIX.								AGES IN YEARS.	N	EAR	œ.						
COUNTIES.	No. Couples.	Атегісап.	Foreign.	Amer. Males, and For. Females.	For, Males, and Am. Females.	Тпкпочп.	Under twenty.	20 to 25.	.08 ot 32	.68 ot 08	85 to 40.	40 to 45.	45 to 50.	20 to 55.	'09 ot gg	.60 to 65.	'02 01 29	70 to 10.	15 to 80.	Over 80.	Опкпомп.
Mecosta	88	21	o o	4	4	1	16	26	17	93	90	90	-	*	-	01	1				- 1
Menominee	10	90	61	H	G1	69	10	9	4	-	01	7	1	-	7	1	i	1	1	1	1
Midland	16	6	69	8	-	1	10	11	+	80	1	1	1	1	1	1	ì	1		1	70
Monroe	88	25	22	67	6	94	25	19	33	16	20	4	4	QI	90	-	03	1	-	9	:
Montcalm	88	48	9	8	4	23	81	45	12	90	9	÷	- 1	F	i	1	1	1	1	- 1	
Muskegon	15	19	18	8	9	7	14	76	98	1-	4	9	-	H	Ħ	91	1	1	1	1	80
Newaygo	41	88	Þ	8	4	-	98	55	19	11	-51	69	1	1	1	1	1	1	-	-	i
Oakland	104	18	8	9	10	4	34	8	48	18	12	4	01	01	=	1	1	1	1	1	00
Oceana	55	35	œ	4	11		55	37	24	00	9	4	01	+	91	1	1	1	-	1	
Ontonagon	1-	T	8	-	7	1	30	1-	Q1	-	1	i	i	1	i	i	1	Ť	1	1	1
Ottawa	146	55	85	80	14	1	56	95	62	19	17	15	00	4	9	63	i	-	1	1	Ħ
Saginaw	152	46	4	18	11	30	49	99	19	27	00	4	9	භ	QI	-	1	1	1	-	18
Sanilac	19	9	8	14	12	-	36	25	66	6	9	00	90	-	-	-	1	1	1	1	91
Shiawassee	180	97	91	•	18	-	25	105	525	88	6	6	90	Q1	-	i	Ī	1	1	-	

St, Clair	101	7	88	8	88	6	H	188	16	88	12	13	1	*	20	*	00			1
St. Joseph	Ħ	180	10	09	œ	12	\$	188	75	25	20	o.	1-	4	60	63	H	I	1	11
Tuscola	8	88	ţ	×	1-	-	28	8	16	00	4	60	1	Ħ	1	н	-		1	00
Van Buren	127	108	8	æ	18	-	25	101	23	6	14	10	80	-	60	1	н		1	90
Wachtenaw	169	8	88	9	18	10	12	181	96	81	18	14	1-	90	NO.	G 4	H		1	60
Wayne	264	198	122	29	74	18	169	420	272	117	8	98	85	Ħ	4	80	01	1	1	6.
State.		8,841	1,022	824	296	306	2,168	4,160	2,828	855	477	271	500	106	26	33	85	10 7	01	202

TABLE IV.—MARRIAGES.

SHOWING, by Counties, the respective ages of the Males and Females, and the total number Married under the age of Twentyrone years; and also, the Whole Number of Persons Married in the State during the period from April 5th to Desember 31st, 1868, inclusive.

Persons the State.	Whole No. o	280	98	88	20 4	204	524	988	888	226	16	SON
and Fe- fed under	Total Majes males Marr 21 years.	98	ø0	6	99	14	176	105	22	62	œ	
a Married Fears.	olamoW latoT g 12 19bnn	98	1-	6	8	38	150	8.	70	35	۲۰	2
Married Jears.	eslaM fatoT Liundanu	6	-		18	9	24	15	ю	60	ī	11
	Трітtееп.					-						
	Fourteen.	-				-		:		-	=	
œ.	Fifteen.	4		-		-	63	-		61		4
OF FEMALES.	Sixteen.	15	61		=	4	56	œ	1 -	4		10
OF F	Вечепtеев.	14	-	4	œ	۳۰	16	18	12	18		18
AGES	Eighteen.	15	-	e1	18	9	#	81	œ	œ	~	*
	Vineteen.	18	67		6	6	81	55	18	œ	-	7
	Twenty.	19	_	63	1-	1-	12	18	क्ष	19	;	18
	Thirteen.			=		-		-	-	-	-]
•	Fourteen.	-	-			-		-	-	-	-	1
.E8.	Fifteen.		-	i		- ;	-	-	-		i.	1
MALES.	Sixteen.	-	-	` ;			-	-	-			
3 OF	Seventeen.			-	-	;	-	-	i	-		
Асвя	Eighteen.	i	- 1	- :	80	-	63	63	-	1	F	
	Vineteen.	63	i	i	-	æ	9	10	61	•	1	20 —
	Twenty.	۲۰	-	-	6	8	16	œ	8	-		.
OR AREA CASE	COUNTIES.	Allegan	Alpena	Antrim	Barry	Вау	Berrien	Branch.	Calhoun	Cass	Cheboygan	Cilaton

<i>j</i> -	04	2			1			9	13	86	6	8	-	<u>:</u>	<u> </u>	+	#	93	176
-	1 / 9	_		_		-		-	04	63	-	69	1		-	+	10	11	88
20	20	- 1-	61		,	1	1	16	14	18	14	12	69			18	8	88	888
04	:	-			,	1	1		8	20	4	*	69			80	22	25	8
20	#	7			,	1	1	99	11	6	80	۲-	-			10	8	49	128
00	10		,			1	1	16	98	16	œ	8				18	8	88	884
H	1	į.				-	1	01	۲-	4	8	4	69		-	-	88	2	116
1.	1	- 1		,	4	1	1	10	69	6	4	4		_			83	23	18
co	7	1	. 1			1	1	H	4	1-	×	8				ĸ	8	8	180
6	0.9	-	- 4			1	1	11	17	18	12	•	61			12	12	25	256
1	1	10	-		A	1	1		-		-	-	-				ĸ	20	8
-	21	-,	•			1	1	7	9	9	8	k)				8	22	2.2	8
90	03	-		- 1		1	1	13	6	8	=	22	-	-	į	9	8	8	8778
10	ю	·		-		İ	-	18	17	20	10	œ	-			10	8	62	840
18	**	63	,			1	1	88	器	8	83	ដ	69			19	145	162	8
9	Ħ	٠.		,		1	1	12	#	16	•	6				œ	Z,	39	174
60				_,		İ	1	4	တ	•	4	8	69			*	19	83	8
1-	9	00		_ 1	,	i	1	21	11	18	12	2	_			91	7.	&	820
64	-			_,		İ	1	10	9	15	69	8	-			4	81	7	163
20	-		_1		,	İ	1	10	ю	11	!	∞				۲	\$	\$	214
+	1				j,	i	1	-	69		-		<u>:</u>				•	•	18
-	:			. 6		i		_	4	20		8	_			-	15	16	88

TABLE IV-CONTINUED.

PATRICIA	COOKIES	Мавоп	Mecosta	Menominee	Midland	Monroe	Montcalm	Muskegon	Newaygo	Oakland	Oceana	Ontonagon	Ottawa.	Saginaw	Sanilac
	Тмепtу.	j	-	1	1	1	91	01	1	¥	1	1	10	1	4
	Nineteen.		н	-	1	1	1	-	63	-	H	1	1	61	
AG	Elghteen.	H	1	1	1	+	1	-	1	-	н	-	03	0.1	-
AGES OF	Seventeen.		1	1	-	-	1	-	1	1	1	į	1	1	
r MA	Sixteen.	-		1	-	i	1	1	- [1		1	1	1	
MALES.	Fifteen.		1		1	i	1	1	1	i	1	1	-	1	
	Fourteen.	1	1	1	1	1	1	-	1	1		- 1	i	1	1
	Thirteen.		- !	1	-	1	1	i	:	1	1	1	-	1	3
	Twenty.	1	+		01	9	10	1	00	13	80	01	10	1~	9
	Vineteen.	-	10		н	00	2	61	60	11	29	01	11	118	12
AGES	Elghteen.	00	1-	03	00	6	ø	*	10	13	2	-	11	10	αĎ
do es	Seventeen.	69	00	67	69	00	1-	2	9	9	10	-	10	1.	6
OF FEMALES.	Sixteen.	60)Q	H	00	4	00	01	4	4	4	į	1-	10	**
· RB	Fifteen.	-			-		63		73	į	67	-	8		
	Fourteen.								-		-	_		-	
	Thirteen,	i			-					-					
Married ears.	Potal Males	-	01			+	60	60	**	9	8	-	2	×	
	Total Females	#	21	20	12	8	88	14	72	47	8	9	\$	#	=
	Total Males males Marri 21 years.	129	28	10	13	81	88	11	80	28	88	1-	E	92	9
Persons the State	Whole No. of	85	26	90	600	178	116	94	32	808	114	14	299	804	3

Shia wassee	138	_	1	1	-		1	18	18	1 18	81 /	•	-	<u>:</u>		82	3	t=	500
St. Clair	10	7	1			1	1	11	83	12	18	13				15	*8	100	88
St. Joseph		NO.	-	1	1	1.5	1	15	88	81	6	6	1		-	6	8	76	843
Tuecola		Q3		1	1	13	1	-	20	o o	1-	63		-		80	73	27	86
Van Buren	9	60		1	1	1	1	11	18	16	9	12	∞		-	6	61	91	254
Washtenaw	xo	1		1	1	- 1	1	19	6	11	78	61				•	4	51	888
Wayne	12		н	1	1		1	23	19	\$	22	83				83	211	**	1,128
StateglT		105	55	10	1	Lude		288	\$89	681	808	881	82	8	04	38	2,666	2,919	10,970



CAUSES OF DEATH.

make them as accurate and complete as possible, and should not be looked upon merely as ingeniously arranged figures. From such tables we can mark the progress of civilization, morals, and sanitary condition, by comparing them with tables of other periods and other localities. Such tables, accurately prepared, were the means by which, in New York City, the mortality of children under one year of age was reduced 99 from 1856 to 1863, while the increase of population during the same period was 350,000.

From the mortality tables of Geneva, Switzerland, it appears that, at the time of the Reformation, one-half the children born, died within the 6th year; in the seventeenth century, not until the 27th year; showing that five children born there, would reach maturity where but one would have arrived at that age, if born three centuries before.

Mr. Milne, the author of the Carlisle Life Tables, ascertained that in the 50 years ending in 1844, the rate of mortality decreased 22 per cent. in Carlisle and its vicinity.

Macauley, in his history of England, shows the difference between London of the 19th and London of the 17th century to be greater than the difference between London in ordinary years and London in the cholera year, there being upwards of 50 per cent. less mortality in the latter century.

Seventy-six more deaths are given in this report than in that of last year, but there are 111 less cases of consumption, which presents a very gratifying exhibit for this State, as one favorable for consumptives, and coincides with the statistical

records kept in different States during the war, of those rejected as unfit for military service on account of phthisis, which proved the percentage less in Michigan than in any other State.

Consumption, occurring as it does, with marked uniformity throughout the civilized world, in countries differing so widely in all their physical aspects, and the inhabitants, as classes, so differently employed, and enjoying different degrees of social and mental culture, an attempt to point out any particular law of nature as an essential and common cause, would, perhaps, be too near conjecture to receive universal sanction, so numerous and varying are the exceptions to any particular theory, however worthy it may be of our study.

The whole number of deaths was 6,326; of which 3,384 were males, 2,915 were females, and 27 sex not stated; making an aggregate of 76 greater for this nine months' report than for the whole year given in the previous report. But this increase of deaths is accounted for from the fact that the city of Detroit, the county of Saginaw, and some smaller counties, and parts of counties not returned for last year's report, are comprised in this.

Of the 6,326 persons deceased, 5,009 were of American birth, 1,047 of foreign birth, and 270 whose nativity was unknown or not returned.

For a detailed statement of nativities, by counties, see Table I of Deaths.

As shown in Table II, 92 Africans, or colored persons deceased; 60 males and 32 females—also, 43 Indians; 26 males and 17 females.

Table II also specifies the number of Africans and Indians who deceased in each county during the period embraced in this report.

DEATHS. 43

TABLE I.—DEATHS.

NATIVITY of Persons who have Died, from April 5, 1868, to December 31, 1868, inclusive.

COUNTIES.	AMBRICAN.	Foreign.	Unknown.	Total.
Allegan	181	82	12	175
Alpena	9	2		11
Antrim	16	2	1	- 19
Barry	74	7	5	86
Bay	61	21	5	87
Berrien	119	22	10	151
Branch	117	4	10	181
Calhoun	165	24	15	204
Cass	91	6	5	102
Cheboygan	4			4
Charlevoix	5	1		6
Clinton	132	18	2	147
Eaton	95	5	4	104
Emmet	24		1	25
Genesee	128	16	7	151
Grand Traverse	18	8	1	22
Gratiot	80	4	4	88
Hillsdale	188	11	5	149
Houghton	48	25	8	76
Huron	28	14		42
Ingham	94	12	2	108
Ionia	119	12	10	141
Iosco	11			11
Isabella	18	1	8	22
Jackson	181	16	8	155
Kalamazoo	188	38	16	187
Kent	188	87	18	288
Lapeer	56	21	'5	82
Leelanaw	82	8	1	40

TABLE I-CONTINUED.

counties.	AKEBICAN.	FOREIGN.	UNKNOWN.	Total.
Lenawee	188	18	11	212
Livingston	59	9	4	72
Macomb	117	85	1	158
Manistee	41	5	1	47
Marquette	88	17		55
Mason	50	14	1	55
Mecosta	28	. 6	4	88
Menominee	. 2	8		8
Midland	6	1	1	8
Monroe	86	28	7	116
Montcalm	52	7	1	60
Muskegon	185	25	4.	164
Newaygo	86	1	8	40
Oakland	142	16	9	167
Oceana	84	5	8	42
Ontonagon	8	7		15
Ottawa	104	56	9	169
Saginaw	180	63	7	250
Sanilac	27	` 18		40
Shiawassee	107	7	7	121
St. Clair	181	57	6	194
St. Joseph	118	8	8	129
Tuscola	59	9	5	78
Van Buren	116	7	9	182
Washtenaw	141	27	6	174
Wayne	791	266	19	1,076
Wexford	5		2	7
State	5,009	1,047	270	6,896

TABLE II.

DEATHS of Persons belonging to Races other than White.

	1	Africa	N.		Indian	
COUNTIES.	Male.	Female.	Total.	Male.	Female.	Total.
Allegan	****	2	2	****	444	
Antrim				3	2	1
Barry	1	****	t			
Berrien	4	1	5			
Calhoun	2		9		1	j
Cass	8	8	6			
Charlevoix				1		1
Clinton	1	****	1			
Rmmet				14	11	20
Hillsdale	1		1			
Jackson	1		1			
Kalamazoo	4	2	6		2000	
Leelanaw	3	2	5			
Lenawee	1	1	2			
Mason	11	9	20			
Mecosta	2		2			
Newaygo	2		2			
Oakland	2		2			
Oceana				8	8	11
St. Joseph	1	1	2			
Van Buren	9		9			
Washtenaw	1		1			
Wayne	18	11	29			
State	60	32	92	26	17	43

TABLE III.

SHOWING, by Counties, the Ages of all Males above the Age of Eighwegers, (excluding months and days,) who died between April 5, 186 and December 31, 1868, inclusive.

	-	•			MA	LES	—A	g es	IN	Yea	RS.			•			
COUNTIES.	Eighty.	Eighty-one.	Eighty-two.	Eighty-three.	Eighty-four.	Eighty-five.	Eighty-six.	Eighty-seven.	Eighty-eight.	Eighty-nine.	Ninety.	Ninety-one.	Ninety-two.	Ninety-three.	Ninety-four.	One hundred and ten.	Total.
Allegan	1			1				1	1								4
Barry						1											1
Bay								1									1
Berrien	1	1															5
Branch	1			1						1							1
Calhoun			2														1
Cass						1			1								,
Clinton						,			1								3
Eaton				1													
Emmet	1										1						
Genesee		1															
Gratiot					1					1							
Hillsdale		9	1	1	-44						1	1		1			1
Ingham				2				1									
Ionia			1		1					.0,							
Jackson		1	2		1		1									****	
Kalamazoo				1	1				1								
Kent			8					1					1				ı
Lapeer		1	1														1
Lenawee	2	1		1	1										1		1
Livingston				1		1											1
Macomb					1	1	1				1						
Mecosta										1							
Monroe		1							1								-
Newaygo		1							1					-		1	1

TABLE III—CONTINUED.

						M	ALES	—A	GES	IN	YE	ars.					
COUNTIES.	Eighty.	Eighty-one.	Eighty-two.	Eighty-three.	Eighty-four.	Eighty-five.	Eighty-six.	Eighty-seven.	Eighty-eight.	Eighty-nine.	Ninety.	Ninety-one.	Ninety-two.	Ninety-three.	Ninety-four.	One hundred and ten.	Total.
Oakland	1			1		1	1		1								5
Ottawa		1	1			1											8
Saginaw	1				1												2
Shiawassee		1															1
St. Clair			1		1												2
St. Joseph	1				1				1								8
Van Buren					1									1			2
Washtenaw					***	2		1									8
Wayne		1	3	2	8		8	•••	2		1	1					16
State	9	11	15	12	18	8	6	5	9	3	4	2	1	2	1	1	102

One hundred and two males died above the age of eighty years. The diseases or causes of death were as follows:

Old age, 61; consumption 5; dropsy, 5; paralysis, 4; cephalitis, 2; suicide, 2; pneumonia, 2; congestion, 2; heart disease, 2; accident, 2; dysentery, 2; and canker, sun-stroke, typhoid fever, bowel disease, inflammation, apoplexy, gravel, hemorrhage of bladder, asthma, mortification, and cancer, 1 each; and 2, causes not given. Their occupations were returned as: Farmers, 72; carpenters, 4; paupers 2; mason, wheelright, gardener, gunsmith, blacksmith, Indian hunter, laborer, and mechanic, 1 each; and 16, occupations unknown.

TABLE IV.

SHOWING, by Counties, the Ages of Females above the Age of Eighty Years, (excluding months and days,) who died between April 5, 1868, and December 31, 1868, inclusive.

						FE	MA	LES	8—.	Ag	ES	IN	YE	AR	s.				
COUNTIES.	Eighty.	Eighty-one.	Eighty-two.	Eighty-three.	Eighty-four.	Eighty-five.	Eighty-six.	Eighty-seven.	Eighty-eight.	Eighty-nine,	Ninety.	Ninety-one.	Ninety-two.	Ninety-four.	Ninety-five.	Ninety-seven.	Ninety-eight.	One hundred and six.	Total.
Allegan	2			1															8
Antrim																	1		1
Barry			1																1
Berrien	1					1			1										1
Branch				1	1	1								1		1			4
Calhoun	1										1	1	1					1	
Cass			1																1
Clinton					1						1		4.						5
Genesee			2		1		1												4
Gratiot			1																1
Hillsdale			1				1	1								1		-	4
Ingham								1							1				
Ionia	1		2						1										
Jackson	1									2							ļ.,		
Kalamazoo	2		3	2	1				1			1							1
Kent	-	1	1		1		1												6
Lapéer		1	1				ļ.,												
Leelanaw		J.,				1				١									
Lenawee				1		1							1	1					
Livingston			ļ				1		1										
Macomb	2	1			1														
Mecosta							1												
Monroe									1										

TABLE IV-CONTINUED.

						F	MA	LE	8-	Ag	ES	IN	Yı	AF	18.				
COUNTIES.	Eighty.	Eighty-one.	Eighty-two.	Eighty-three.	Eighty-four.	Eighty-five,	Eighty-six.	Eighty-seven.	Eighty-eight.	Eighty-nine.	Ninety.	Ninety-one.	Ninety-two.	Ninety-four.	Ninety-five.	Ninety-seven.	Ninety-eight,	One hundred and six.	Total.
Muskegon							1												1
Oakland					1	1													
Ottawa										1									1
Saginaw	1			1					1	1									4
Sanilac								1											1
St. Clair						1	2.												1
St. Joseph	1																		1
Tuscola						1													1
Washtenaw	1	1						1					ia,						8
Wayne	1	1	1	1	-		1	1				1	1		1				y
State	14	5	14	7	7	7	7	5	7	4	2	3	8	2	9	1	1	1	92

The number of females who died above the age of eighty years, was 92, and their causes of death were returned as follows:

Old age, 61; dropsy, 6; consumption, 6; typhoid fever, 3; remittent fever, inflammation of stomach, congestion of lungs, erysipelas, cancer, congestive chills, bilious fever, ague and fever, heart disease, paralysis, hydrocephalus, and diarrhea, 1 each; causes unknown, 4. Five were returned as farmers, 1 as weaver, 1 as tailoress, and 1 as housekeeper.

The following statement gives detailed particulars regarding the oldest man and oldest woman in each county, who died during the period of time comprised in this report.

The two oldest persons whose deaths were chronicled, were— James Davis, born in Vermont, died in Newaygo county, aged 109 years, 11 months and 2 days. Catharine O'Brien, born in Ireland, died in Marshall, Calhoun county, aged 106 years and 2 months.

STATEMENT,

Naming the Oldest Man and the Oldest Woman, in each County, who Died between April 5, 1868, and December 31, 1868, with their Occupation when returned, Nativity, Residence at the time of Decease, Date of Death, Cause of Death, and Ages in years, months and days, with the whole number of Deaths returned from each County.

ALLEGAN—John Thayer, farmer, born in the State of New York, died of old age in Casco, Oct. 25, 1868, aged 88 years. Serapta Haywood, born in Vermont, died of old age in Cheshire, August 14, 1868, aged 82 years, 11 months and 14 days. One hundred and seventy-five deaths in the county.

ALPENA—James Millan, laborer, born in Ireland, died of consumption, in Alpena, December 30, 1868, aged 61 years. Olivia A. Spratt, born in Maine, died of child-birth, in Alpena, July 7, 1868, aged 28 years. Eleven deaths in the county.

ANTRIM—Shabordone, (Indian,) born in Grand Traverse, died in Milton, April 25, 1868, aged 70 years, disease and occupation not given. Isabella McBeath, born in Scotland, died of old age, in Helena, September 4, 1868, aged 97 years and 11 months. Nineteen deaths in the county.

BARRY—Richard Young, farmer, born in Pennsylvania, died in Carleton, of old age, September 4, 1868, aged 85 years. Susannah Freeman, born in New York, died of old age, in Thorn Apple, September 12, 1868, aged 82 years, 5 months, and 24 days. Eighty-six deaths in the county.

BAY—John McPhail, born in Canada, died of bowel disease, at Poor-House, April 7, 1868, aged 68. Mary Bard, born in Vermont, died of old age, in Bay City, April 12, 1868, aged 87 years. Eighty-seven deaths in the county.

Berrien—Samuel Torbert, born in Pennsylvania, died of old age, in St. Joseph, May 1, 1868, aged 81 years. Deborah Haywood, born in Connecticut, died of old age, in Benton, October 27, 1868, aged 87 years, 7 months, and 5 days. One hundred and fifty-one deaths in the county.

Branch—Martin Fillapau, farmer, born in New York, died of dropsy, in Bronson, May 23, 1868, aged 88 years, 11 months, and 27 days. Margaret Van Orsdale, died of old age, in Quincy, June 9, 1868, aged 94 years. One hundred and thirty-one deaths in the county.

CALHOUN—Christian Bochman, farmer, born in Tennessee, died of old age, in Marengo, December 29, 1868, aged 82 years and 2 months. Catharine O'Brien, born in Ireland, died of old age, in Marshall, April 1, 1868, aged 106 years and 2 months. Two hundred and four deaths in the county.

Cass—William R. Fitch, farmer, born in Vermont, died of sun-stroke, in Mason, July 18, 1868, aged 87 years and 6 months. Achsah Warner, born in Massachusetts, died of congestion of the lungs, in Volinia, June 11, 1868, aged 81 years, 7 months, and 12 days. One hundred and two deaths in the county.

CHARLEVOIX—Almon M. Ingalls, clerk, born in New York, died in Illinois, of diarrhœa, October 10, 1868, aged 29 years, 2 months, and 8 days. Agnes Graham, born in Ireland, died June 7, 1868, aged 66 years, 11 months, 18 days. Disease and place of death not returned. Six deaths in the county.

CHEBOYGAN-Four deaths in the county, all under 5 years.

CLINTON—Fletcher Jenison, farmer, born in New York, died of old age, in Eagle, July 3, 1868, aged 88 years. Sarah Holden, weaver, born in New York, died of old age, in Olive,

July 13, 1868, aged 89 years, 11 months, and 24 days. One hundred and forty-seven deaths in the county.

EATON—William Lowell, farmer, born in Vermont, died of old age, in Eaton Rapids, April 25, 1868, aged 82 years, 8 months. Betsey Spaulding, born in New Hampshire, died of consumption, in Roxand, May 4, 1868, aged 75 years, 2 months, and 15 days. One hundred and four deaths in the county.

EMMET—John Madjiwijiwe, Indian hunter, died of old age, in Little Traverse, December 18, 1868, aged 90. Angeligue Wabodjig, Indian, born in Emmet county, died of old age, in Little Traverse, Sept. 30, 1868, aged 71. Twenty-five deaths in the county—all were Indians.

GENESEE—John Hart, carpenter, born in England, died of pneumonia, in Mount Morris, Dec. 28, 1868, aged 81 years, 9 months, and 14 days. Cynthia Vincent, born in Connecticut, died of consumption, at Flint, April 28, 1868, aged 86. One hundred and fifty-one deaths in the county.

Grand Traverse—Nelson Andrew, farmer, born in Sweden, killed by fall of a tree, in Grant, December 30, 1868, aged 40 years, 9 months, and 27 days. Rosina Swaney, born in Pennsylvania, killed by threshing machine, in Peninsula, Sept. 2, 1868, aged 58 years, 1 month, and 23 days. Twenty-two deaths in the county.

Gratiot—Michael Eggan, farmer, born in Ireland, died Dec. 8, 1868, aged 89 years, 2 months, and 21 days; cause of death, and residence, not given. Sophia Parmer, tailoress, born in Massachusetts, died of dropsy, in Arcada, Sept. 17, 1868, aged 82 years and 2 months. Thirty-eight deaths in the county.

HILLSDALE—Barnard Cass, farmer, born in New Hampshire, died of old age, in Woodbridge, August 1, 1868, aged 93 years, 5 months, and 26 days. Rose A. Wood, born in New York, died of old age, in Scipio, June 22, 1868, aged 96 years, 10 months, and 13 days. One hundred and forty-nine deaths in the county.

HOUGHTON—John Sullivan, laborer, born in Ireland, killed in Calumet, September 16, 1868, aged 60 years and 3 months. Mary Dunn, housekeeper, born in Ireland, died of consumption, October 15, 1868, aged 48 years. Place of death not returned. Seventy-six deaths in the county.

Huron—Reuben Dodge, laborer, born in Maine, died of fever-sore, in Caseville, October 1, 1868, aged 73. Johannes Christina Wenchky, born in Prussia, died of stomach disease, October 30, 1868, aged 57 years, 8 months, and 11 days. Residence not given. Forty-two deaths in the county.

INGHAM—George Reason, born in England, died of old age, in Stockbridge, April 1, 1868, aged 87. Hannah Horton, born in Massachusetts, died of cancer, in Mason, September 2, 1868, aged 94 years, 4 months, and 16 days. One hundred and eight deaths in the county.

IONIA—Burk Gibbs, died of old age, in Port Huron, Sept. 17, 1868, aged 84. Nativity and occupation not returned. Lucy A. Donovan, born in Vermont, died of old age, in Boston, Mich., June 11, 1868, aged 87 years, 8 months, and 5 days. One hundred and forty-one deaths in the county.

Iosco—David Fox, laborer, born in New York, died of paralysis, in Alabaster, Nov. 10, 1868, aged 78 years, 8 months, and 4 days. No woman died. Eleven deaths in the county.

ISABELLA—Hugh McCully, farmer, born in Ireland, died of disease of the bowels, in Vernon, April 13, 1868, aged 60 years, 2 months, and 11 days. Electa Davis, born in Vermont, died of epilepsy, in Coe, Sept. 21, 1868, aged 73 years, 6 months, and 4 days. Twenty-two deaths in the county.

Jackson—Asael King, farmer, died of old age, in Rives, April 4, 1868, aged 86 years. Nativity not given. Roxana Snow, born in Connecticut, died of old age, in Sandstone, December 11, 1868, aged 89 years. One hundred and fifty-five deaths in the county.

KALAMAZOO—James Coats, farmer, born in England, died of pneumonia, in Prairie Ronde, April 27, 1868, aged 87 years, and 7 months. Mrs. Moffatt, born in Massachusetts, died of old age, in Kalamazoo, Sept. 22, 1868, aged 91 years, 1 month, and 1 day. One hundred and eighty-seven deaths in the county.

Kent—Jedediah Riggs, farmer, born in Connecticut, died of old age, in Ada, July 7, 1868, aged 91 years, 11 months, and 30 days. Sally Nichols, born in Vermont, died of old age, in Algoma, August 27, 1868, aged 85 years, 8 months, and 2 days. Two hundred and thirty-three deaths in the county.

LAPEER—James P. Pitcher, farmer, born in Vermont, died of heart disease, in Elba, November, 1868, aged 82 years. Catharine Reardon, born in Ireland, died of consumption, in Dryden, August 13, 1868, aged 82 years. Eighty-two deaths in the county.

LEELANAW—Adam Rikard, farmer, born in New York, died of old age, in Centreville, November, 1868, aged 74 years. Madaline Stimel, born in Germany, died of old age, in Bingham, August 18, 1868, aged 85 years. Forty deaths in the county.

LENAWEE—Ezra Thomas, farmer, born in New York, died of old age, in Fairfield, October 18, 1868, aged 94 years. Anna Smead, born in Massachusetts, died of old age, in Adrian, August, 1868, aged 94 years. Two hundred and twelve deaths in the county.

LIVINGSTON—Walter Wright, farmer, born in New York, died of old age, August 11, 1868, in Unadilla, aged 85 years. Salona Stone, born in New York, died of old age, in Deerfield, December 17, 1868, aged 87 years, 6 months, and 20 days. Seventy-two deaths in the county.

MACOMB—Henry Baker, pauper, born in New York, died of old age, in Clinton, April 16, 1868, aged 90 years. Elizabeth Hamilton, born in Scotland, died of old age, in Bruce, June

55

22, 1868, aged 83 years, 11 months, and 20 days. One hundred and fifty-three deaths in the county.

MANISTEE—Connel Gallaher, farmer, born in Ireland, died of consumption, in Bear Lake, June 30, 1868, aged 72 years, 6 months, and 7 days. Antoinette Farnsworth, born in Michigan, died of typhoid fever, in Brown, August 25, 1868, aged 36 years. Forty-seven deaths in the county.

MARQUETTE—O. F. Swoinson, laborer, born in Sweden, died of accident, in Ishpeming, November 25, 1868, aged 50 years. Mary Edmundson, born in Ireland, died of old age, in Ishpeming, August 7, 1868, aged 75 years. Fifty-five deaths in the county.

MASON—Lawrence Whitaker, farmer, born in New York, died of consumption, in Victory, Nov. 25, 1868, aged 68 years. Lucy A. Smith, born in Michigan, died of intermittent fever, in Victory, September 6, 1868, aged 35 years, 6 months, and 7 days. Fifty-five deaths in the county.

MECOSTA—Dr. Thos. Owen, born in New York, died from accident, in Big Rapids, August 11, 1868, aged 89 years. Hannah Hyde, born in New York, died of old age, in Big Rapids, December 28, 1868, aged 86 years. Thirty-eight deaths in the county.

MENOMINEE—Philip Hoeguarts, carpenter, born in Lower Canada, died from a fall, in Menominee, Nov. 8, 1868, aged 26 years and 2 months. Margaret Schultz, born in Germany, died of consumption, in Menominee, April 4, 1868, aged 46 years, 1 month, and 9 days. Eight deaths in the county.

MIDLAND—John Hurlbert, farmer, born in Vermont, died of consumption, in Jasper, December 19, 1868, aged 70 years, 2 months, and 20 days. Mrs. John McCartney, born in Ireland, died of consumption, in Midland City, Aug. 18, 1868, aged 59 years and 2 months. Eight deaths in the county.

MONROE—Peter Corcoran, farmer, born in Ireland, died of gravel, in Ash, Aug. 5, 1868, aged 88 years. Grace Mortimore,

born in England, died of old age, in Whiteford, August 13, 1868, aged 88 years. One hundred and sixteen deaths in the county.

Montcalm—Martin Pierson, joiner, born in New York, died of consumption, in Pierson, Nov. 6, 1868, aged 79 years, 5 months, and 23 days. Sarah Winchell, born in Vermont, died of old age, in Sidney, Sept. 21, 1868, aged 88 years. Sixty deaths in the county.

Muskegon—John Squires, farmer, born in New York, died of typhoid fever, Oct. 17, 1868, aged 76 years, 4 months, and 3 days. Martahable Stevens, born in Connecticut, died of old age, in Eggleston, Sept. 28, 1868, aged 86 years. One hundred and sixty-four deaths in the county.

NEWAYGO—James Davis, laborer, born in Vermont, died of old age, in Ashland, December 3, 1868, aged 109 years, 11 months, and 2 days. Sophia Scranton, born in Vermont, died of heart disease, in Big Prairie, July 2, 1868, aged 73 years. Forty deaths in the county.

OAKLAND—John T. Wilcox, farmer, born in England, died of dropsy, in Farmington, July 12, 1868, aged 87 years, 8 months, and 10 days. Abigail Stone, born in Vermont, died of old age, in Commerce, Dec. 13, 1868, aged 85 years. One hundred and sixty-seven deaths in the county.

OCEANA—Horace S. Pitcher, farmer, born in Connecticut, died of dropsy, in Benona, October 3, 1868, aged 69 years, 6 months, and 18 days. Margaret Knapp, housekeeper, born in Canada, died of old age, in Shelby, May 20, 1868, aged 71 years. Forty-two deaths in the county.

Ontonagon—William Buck, laborer, born in Ireland, died at Rockland, of diabetes, May 21, 1868, aged 48 years. Mary Burns, born in Ireland, died of asthma, in Rockland, October 9, 1868, aged 70 years and 7 months. Fifteen deaths in the county.

OTTAWA-Orange McClure, mason, died of old age, at Wright, December 26, 1868, aged 85 years. Nativity not reDEATHS. 57

urned. Susan Farwell, born in Connecticut, died of old age, In Holland, Mich., Sept. 17, 1868, aged 88 years and 11 months. One hundred and sixty-nine deaths in the county.

SAGINAW—Curtis Day, carpenter, born in New York, died of dysentery, in Chapin, Sept. 12, 1868, aged 84 years and 5 months. Jenny Carter, born in New York, died of old age, in South Saginaw, Aug. 25, 1868, aged 89 years, 1 month, and 8 days. Two hundred and fifty deaths in the county.

SANILAC—Robert Booth, farmer, born in Ireland, killed by mill car, in Washington, Mich., Sept. 30, 1868, aged 67 years. Margaret Donald, born in England, died of old age, in Marlett, April 16, 1868, aged 87 years, 3 months, and 16 days. Forty deaths in the county.

SHIAWASSEE—William Kenney, mechanic, born in Connecticut, died of paralysis, in Perry, August 7, 1868, aged 81 years. Laura Wheelock, born in Connecticut, died of old age, in Corunna, Dec. 18, 1868, aged 75 years. One hundred and twenty-one deaths in the county.

St. Clair.—Robert Glassford, farmer, born in the United States, died of old age, in Muzzey, Nov. 25, 1868, aged 83 years and 6 months. Mary Bullamy, born in England, died of old age, in the city of St. Clair, June 25, 1868, aged 85 years and 25 days. One hundred and ninety-four deaths in the county.

St. Joseph—John Schraman, carpenter, born in Germany, died of mortification, in Sherman, August 24, 1868, aged 88 years, 5 months, and 11 days. Mrs. Blue, born in Pennsylvania, died of dropsy, in Park, July 18, 1868, aged 80 years. One hundred and twenty-nine deaths in the county.

Tuscola—Ira Pratt, farmer, born in New York, died of pneumonia, in Juniata, September 6, 1868, aged 78 years, 10 months, and 26 days. Keturah A. Clark, born in New York, died of old age, in county poor-house, May 20, 1868, aged 85. Seventy-three deaths in the county.

VAN BUREN—William Thompson, farmer, born in Connecticut, died of consumption, in Pine Grove, May 22, 1868, aged 93 years, 3 months, and 2 days. Deborah Rhodes, born in Connecticut, died of typhoid fever, in Columbia, October 14, 1868, aged 78 years. One hundred and thirty-two deaths in the county.

Washtenaw—Patrick Hagerty, wheelwright, born in Ireland, died of old age, in Lyndon, May 17, 1868, aged 87 years. Mary Sherwood, born in Ireland, died of old age, in Superior, October 21, 1868, aged 86 years, 9 months, and 20 days. One hundred and seventy-four deaths in the county.

WAYNE—Richard Benton, farmer, born in England, died of old age, in Monguagon, April 10, 1868, aged 91 years. Charlotte Charboney, born in Detroit, died of dropsy, in Detroit, Dec. 4, 1868, aged 95 years. One thousand and seventy-six deaths in the county.

Wexford—Thomas D. Copley, farmer, born in Michigan, died of disease contracted in United States service, in Wexford, July 6, 1868, aged 32 years. Martha Pratt, birth-place not returned, died a suicide from insanity, in Wexford, Nov. 26, 1868, aged 38 years, 4 months, and 1 day. Seven deaths in the county.

DEATHS. 59

TABLE V.

EXHIBITING, by Sex and Age, the number and percentage of Deaths from all causes, from April 5, 1868, to December 31, 1868, inclusive.

				PER CEN	r. of thi	SEXES.	ole No.
AGE.	Males.	Females.	Unknown.	Males.	Females.	Unknown.	Per Cent. of whole No. of Deaths.
Under 5 years	1,401	1,159	12	54.47	45.06	.47	41.27
5 to 10 "	146	118		56.87	48.68		4.16
10 to 15 "	99	98		51.56	48.44		8.08
15 to 20 "	188	156		46.08	58.97		4.64
90 to 80 "	817	810		50.56	49.44		10.06
80 to 40 "	208	226		47.98	52.07		6.96
40 to 50 "	202	158		56.11	48.89		5.78
50 to 60 "	219	161	 -	57.68	42.87		6.10
60 to 70 "	265	178		60.50	89.50		7.08
70 to 80 "	198	188	1	58.75	40.95	.80	5.41
80 and over	100	94		51.55	48.55		8.11
Unknown	78	75	2	48.66	50.00	1.84	2.40
State	8,861	2,856	15	58.98	45.88	00.24	100.00

Last year it was noted as a surprising fact, that 34.43 per cent., or "more than one-third of the whole number of deaths reported, were those of children under five years of age." The present report, comprising returns from a much larger population, shows that 41.27 per cent. of the deaths were those of children under 5 years of age; an increase of nearly 7 per cent. More than two-fifths of the children born in the State, die under five years. Less than fifty-nine out of every one hundred children born alive, reach the fifth year of existence.

TABLE VI.—DEATHS.

SHOWING, by Counties and by months, the Number, Sex and Age, in years, of those who died from April 5th to December 31st, 1868, inclusive.

		ДЕАТИ	.H8.	===																					ı
BALUNLING		SEX.						Ä	MONTHS	H3.									AGES.	<u> </u>					
COOK TERS.	Male.	Female.	Unknown.	Total.	April.	May.	June.	July.	August.	September. October.	November.	December.	Unknown.	Under 5.	5 to 10.	10 to 12'	15 to 20.	20 to 80.	.04 ot 08	40 to 50.	.09 ot 03	.07 of 08	.08 01 07	.Tevo bas 08	Спкпомп.
State	88	2915	15	6826	186	208	287	<u> 86</u> 171	92	1401	905	88	88	588	257	204	388	3	#	867	88	84	88	2	188
Allegan	88	8	=	175	=	==	∞	 8		- S2 - S2	5 19	- 19	-	8	ţ-	ю	7.	16	. 91	11	13	•	18	۲-	69
Alpena	ю	9	:	=	-	_	_	_			1	o4 :	:	9	-	-	-	03	ī	i		_	i	-	į
Antrim	10	6	:	19	-	-		63	•	4		8		o o	-	-	-	4	-	:	:	-	_	-	-
Вапту	2	5	ī	8	80	۲-	20			19 14	14 11	12	-	92	*	4	∞	20	×o	8	6	9	•	69	ю
Bay	\$	41	-	228	2	10	9	18 1	15 1	11 91		-4 -4	-	22	-	4	-	6	∞	~	93	63	i	-	4
Berrien	72	65	-	151	*0	===	00	18	8 8	80 27	7 15	= =====================================	-	8	4	•	6	8	2	=	×	2	•	20	8
Branch	8	2	4	181	2	91	18	-80	14 8	19	9 18	<u> </u>	<u> </u>	7	2-	•	۲-	12	×	00	15	=	•	<u>k-</u>	į
Calhoun	114	8		708	22	=======================================	8	18	8 8	88	18	88	-	82	-	~	6	2	13	18	18	11	7	۲-	=
Chase	8	1	-	100	-	•	-		10 1	17 18	15 12	18	_	3	4	~	8	=	2	8	18	۲-	•	8	i

Charlevolx	-	10	į	0	-	i	-		÷		61		:	29		-	i	-			14	1	1	2000
Cheboygan	00	-	1	4	1	1			-	1	1	0.8	i	4	-			÷	-	- 6	1	1	1	į
Clinton	62	3	4	147	11	15 1	11 1	11 19	27	50	11	8	04	528	9	4	=	10	11 11	8	0	10	00	-
Katon	20	4	Ī	101	1-	8	18	15	28	18	12	1-	1	85		1	20	18	18	9 12	00	9	-	~
Emmet	14	=	1	200	1	01		1	80		61	10	1	18	61	-	1	- ;		_	:	61	01	-
Genesee	69	18	-	121	6	10 1	15 1	15 27	08	25	-	12	+	8	13	4	-	18	11	12	16	10	10	•
Grand Traverse	6	18	1	65	*		1	co	7.0	-	1		01	11	69	:	-	99	-51	_	1	1	:	34
Gratiot	83	14	-	88	00		9	10	GO.	80	1	1-	H	13		-	28	10	-	_	9	-	00	-
Hillsdale	75	12	1	149	9	16 1	1 3	15 18	8 27	18	3 15	19	į	4	10	9	6	1 02	*	-	8 16	1.	Ħ	•
Houghton	4	88	1	91	9	60	2 1	13 15	5 10	=	*	0	+	42	*3	00		0,	9	-	1	- 1	1	_
Haron	21	12	1	45	01	9	00	-	œ	-	2	20	1	6	7	00	01	91	*	80	- 5	+	1	_ ;
Ingham	23	48	01	801	11	60	-	18 15	3.16	13	50	6	1	85	00	4	4	68	10	_	=	9	10	10
Ionia	20	F	1	141	9	10 1	11 9	90 58	88	16	3 15	0.21	64	48	-	10	80	14	00	_	11	13	9	91
Говсо	*	1-	1	=	1	1	1.	1	03		03		-	1-	•	:	:	:	1	+	1	-	;	-
Isabella	10	63	1	61	-			ès		-	01		1	ot	4	O1	-	4	4	1	-	-	1	
Jackson	16	8	-	155	13	=	10 1	15 21	1 33	14	20	10	09	4		9	10	08	7 11	17	18	9	00	•
Kalamazoo	66	98	64	181	11	20 1	19 1	16 20	18 0	12	18	12	-	88	4	80	9	20 1	14 1	12 16	11	16	138	6 0
Kent	116	911	-	288	10 5	20 1	12	40 88	8 44	831	1 27	16	1	98	18	*	81	12	15 1	11 18	22	83	0	•
Lapeer	7	#	-	88	9	10	8	11 14	4 12	_	80	10	1	56	-	4	10	=	10	-	-	83	4	*
Leelanaw	11	88	1	9	01	-	_	*	8 12		4	60	1	11	10	00		04	61	01	09	64	*	•
Lenawee	113	96	4	212	12	15 2	20 1	18 85	88	- 23	22 - 1	16	10	19	00	90	=	36	18 1	14 10	27	15	10	•
Livingston	98	98		61	9	1-	9		9	18 11		6.		22	00	*	kg	9	-	10	4	9	4	_:

TABLE VI-CONTINUED.

		DEA	Вватне.		- 0																				
		SEX.							MONTHS	e e										AGES	ń				
COUNTIES.	Male.	Female,	Опкпоwп.	латоТ.	April.	May.	June	July.	Angust.	September.	October.	November.	December,	Опкломп.	Under 5.	5 to 10.	10 to 15.	15 to 20.	708 03-05	.0b of 08	40 40 20	20 10 20	.07 of 00 .08 of 07	80 and over,	Тикпожп.
Macomb	F	23		138	50	23	13	18	22	90	=	19	16		95	9	10	10	22	10	9	18	14	90	
Manistee	. 28	75	-	4	60	03	9	00	0	10	*	9	4	1	65	-	-	93	9	4	-	1	1	-	-1
Marquette	. 81	3		23	8	00	9	10	9	=	23	*	10	1	36	-	1	01	00	00	01	-	1		:
Мавоп	85	65	-	18	00	69	Q1	73	10	07	9	4	1-	-	889	*	01	69	-	4	-	1	93	-	1
Mecostu	54	7	1	88	1	OI	9	01	6	01	9	10	9	1	21	н	-	ÇR	-	10	1	1	01	01	63
Menominee	10	00	1	00	-	-	1	+	1	99	-	01	-	1	4	i	-1	-	+	-	-	1	1	_	1
Midland	10	00	-	on	.53	1	1	*	94	-	H	+	1	-	63	i	i	i	:	-	1	-	-	1	
Monroe	. 67	49	1	911	9	18	9	10	10	15	14	16	50	-	45	9	п	10	14	00	01	10 1	12	03	80
Montcalm	40	20	- 1	3	*	00	00	6	16	9	1-	6	00	1	81	-	-	01	00	9	20	20	90	94	-
Muskegon	. 91	22	-	164	6	9	9	21	48	90	12	14	13	-	86	6	00	t-	15.	00	6	00	9	-	_
Newaygo	25	15	***	40	01	98	KO	9	XQ.	10	60	1	10	1	14	00	00	10	*	-	01	63	-	69	-
Onkland	98	8	-	1 167	16	18	10	8	18	15	80	12	18	8	92	04	8	1-	14	10	16	16 1	16 18	_	12

Oceana	65	08	7	37	94	01	4	30	X	9	80	œ	1	8				20	*	10		100		
Ontonagon	9	6	-	15 1	G#		-00	80		-	σŧ	ø	1	9		69:	64		-	69			_	
Ottawa	8	98	16	169	22	13	54	55	53	19	6	16	1	8		6	œ.	16	97	9		12		-
Saginaw.	121	66	25	250 14	55	18	64	32	83	53	12	80	1	128	13	£=	21		50	18		18	×o	
Sanilac	21	119	41	40	~		01	Ħ		*	ţ=	1-	-	18	03		*	•	69	00		*		•
Shiawassee	82	8	121		8 10	6	15	8	18	50	œ	=	i	Ŧ			9	18	10	18		6	00	
St. Clair	105	88	1 19	194 16	3 21	83	H	18	88	85	25	50	1	82	15		*	83	6	13	2	19	9	66
St. Joseph	20	23	12	129 (12	18	17	22	12	119	90	*	47	*		9		ţ-	10	6	F=	=	-
Tuscola	48	52		73	5	=	9	18	23	6	GR	30	- [30	60	60	Ø4			00	80	20		
Van Buren	50	62	13	182	8	9	11	17	80	75	1-	13	94	46	00	23	4	15	æ	6		14	22	es.
Washtenaw	100	7.	17	174 18	22	10	23	18	83	16	16	83	-	3	10	6	10	55		10	=	14	=	
Wayne	299	475	201 2	1076 116	11.	88	185	180	115	100	88	25	O.	220	æ	98	98	32	69	29	92	47	45 25	83
Wexford	00	4		-			Н		60	1				60					80					i

TABLE VII.—CAUSES OF
EXHIBITING, by Month, by Age and Sex, the Registered No. of Deaths
[Still-births not

D)	EATHS	3.						Mo	NTHS					
		SEX.												
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State	8884	2915	27	6326	486	508	482	747	988	1041	776	602	668	28
Males			ļ		****									
Females		4	ļ	4			1				1	1	1	
Males	6	ļ			2	1			1	1		1		
Females		7		18		1	1	1	2	1	1			
Males	1			1								1		
Females		 -												. –
Males		 												. —
Females	2	 		2						1			1	.—
Males	19	 -			4	2	4	2	1	1	1	4		
Females		18		87	2	1	2	8	2	2	2	8	1	
Males	7								2	1		2	2	
Females	•••••	2		9							1	1		
Males	21				1		1	3	7	4	1	2	2	
Females		12		33		1	2	1	8	8	1		1	
Males	12				1	1	1	2	8	2	1	1		
Females		6		18	1		1			1	1	1	1	.—
Males	2					1						1		
Females		1		8					1			****		-
Males	8				1							1	1	
Females		4		7	1		1			1		1		
Males	28				2	8		1	4	1	8	7	2	-
Females		18		41	2		2	2	1	1	8	8	4	
Males	140				6	5	19	18	16	26	24	18	11	
Females		18	اا	158	1		9	8	2	4		1		

DEATH,—Alphabetical Arrangement.

from Specified Causes, from April 5th to December 31st, 1868, inclusive.
included.]

					A	GES.						
CAUSES of DEATH.	Under 5 y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	80 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	S0 and over.	Unknown.
	2584	257	204	285	640	444	367	381	446	386	194	188
Abortion												
"	l l		 		2	1	1	-150				
Ab _{scess}		2	 			1			2	1		
"					1	2	1	1	2			
Annputation	 		 			1						
"												
A memia	ļ .	 -	 -									
"	ļ							1	1			
A poplexy	 				1	1	8	3	5	5	1	
"	1		 -			4	4	4	8	2		
Asthma	 					1		1	2	2	1	
"								1		1		
Bowels, Disease of	8		ļ	1		1	2	5	3			1
" "	6	 		1	8	1					1	
Brain, "	8	 -	1		1		1		1			
	5	1						••••				
Brain, Softening of		ļ							1	1		
" "	1					1		****			****	
Bronchitis	1		÷				1	1	••••	****	****	••••
"		 -		1	1	1	1				••••	
Burns and Scalds		8	1		24.1		1					
" "	10	3	1	2	1		1					
Casualty	18	16	7	10	29	16	15	15	10	8	2	4
"	1	2		2	1		1	1	5			

TABLE VII.—CAUSES OF DEATH-

DI	CATHS	J.						′ M o	HTK	8.				
		SE	x .											
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Males	25				2			5	3	7	2	3	3	
Females		49	ļ	74	g	5	7	4	5	4	7	8	11	
Males	1							1						
Females	ļ			1										
Males	117		ļ		11	8	11	12	23	22	18	9	8	
Females		105		222	10	8	5	18	14	14	15	12	9	
Males		ļ					****							
Females	84	ļ	ļ	84	6	10	9	10	12	11	8	6	12	
Males				 										
Females	1			1					1					
Males	42		 			1		12	12	12	8	1	1	
Females		82		74			1	9	9	6	8	1	1	3
Males														
Females		2		2									1	1
Males												266		
Females		2		2		1					1			
Males	82				2	2		2	8	8	4	3	3	
Females		81		68	2	1		8	4	8	6	5	2	-
Males	424				46	42	80	46	49	60	48	54	47	8
Females		417		841	86	65	33	84	47	48	48	48	58	5
Males	52					4	6	11	11	5	2	6	4	
Females		89		91	5	3	1	9	8	2	1	7	8	
Males	40					5	2	2	5	5	7	6	7	
Females	-	24		64	8	1	2		2	6	8	2	5	
Males	1	ļ						1						
Females		1		2			1		-					
Males	18					1	1	2	8	2	2		2	
Females		19		82		2	8		1	4	5	8	1	
Males	188				5	2	'5	80	84	41	11	1	3	1
Females		116		249	2	1	2	25	32	38	12	8	1	

DEATHS.

					A	AGES.			-			
AUSES of DEATH.	Under 5 y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
ancer	8			1		1	1	4	11	8	1	Ţ
	8			1	2	8	6	11	17	8	1	2
Sarbuncle	:							1				ļ
												ļ
Cephalitis	74	6	5	6	4	7	4	5		8	2	1
"	67	12	4	4	5	5	1	4	1	1		1
Child-birth									••••			
		 -		4	41	25	11					8
Cholera					• • • • •							
**	1									••••		
Cholera Infantum	42											
	82		 -									ļ
Chorea			 -		1							
**				1		1						
Climacteria												
							2					
Cong. Chills & Ague.	11	4	1	1	1	2	2	2	4	8	1	
** . ** **	10	8	2	1	2	1	8	2	3	2	2	
Consumption	58	2	7	24	101	56	57	40	49	28	4	٤
	26	7	14	49	110	69	44	32	86	17	6	
Convulsions	46			****	3		. 1	2		****	••••	ļ
	25	2	1	1	5	2			1			2
Croup	87	1	1	1				••••				
44	22	1			1							ļ
Cystitis							4444			1		
**	·								. 1	•		
Debility	6		1		1	8			2			
"	9			2	***	1	2	2	2	100		
Diarrhœa	105	4	1	4	4	8	8	1	6	1		1

TABLE VII.—CAUSES OF DEATH-

	D	EATH	s.					M	ONTE	18.				
		Sex												
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Males	8					1	1	2				4		
Females		1		9	1									
Males	85				2	2	4	4	8	5	9	5	1	
Females		87		72	1		1	2	8	6	8	12	4	.,
Males	68				8	5	5	9	18	8	9	8	7	1
Females		75		148	10	9	4	9	8	18	8	5	9	
Males	72				4	7	25	12	8	7	4	8		9
Females		17		89	1	1	5	1	2	8	8	1		
Males	178				3	2	8	11	58	70	24	1	5	1
Females		141		320	2	3	4	15	41	54	16	5	1	
Unknown			1							1				
Males														
Females	2			2								1	1	
Males	5						2	2	1					
Females		2		7					1				1	
Males	46				8	8	7	2	9	7	6	5	8	
Females		89		85	8	8	2	5	5	7	1	5	3	
Males	2								1	1				
Females		7		9	1	2			2	1		1		
Males	29				1	6	4	4	8	1	8	5	2	
Females		16		45	1		1	2	2	4	5		1	
Males	11					1	1			2	2	2		
Females		7		18					2	2	2	1		
Males	110				7	7	10	8	7	26	18	11	11	
Females		118		228	8		4	12	25	27	15	10	16	12
Males	180				8	8	7	6	27	37	43	15	29	
Females		162		842	9	6	4	12	18	35	41	16	20	þ
Males	1	l	3											
Females				1	201									
Males	50				3	8	2	11			7	8	4	
Females	"	48		98	3	4	9	7	10		8	8	4	

DEATHS.

					A	LGES.						
AUSES of DEATH.	Under 5 y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Diabetes		1	1		2	1	1		1			1
"					1							
Diphtheria	24	6	1	8		.			1			
	16	8	6	8			1	2		1		
Dropsy	7	8		3	6	7	3	10	9	15	5	
"	5	8	8	2	7	8	14	11	7	10	4	1
Drowned	5	11	6	10	19	9	6	2	1	1		2
	5	5				4	2					1
Dysentery	188	14	6	8	2	1	2	2	8	4	2	1
	107	8	8			2	2	8	6	4		6
	1											
Dysmenorrhœa												
				1	1							
Dyspepsia								8	2			
"						1				1		
Enteritis	19	2	4	2	6	2		7	2	2		
	10	1	. 2	3	1	(5	1	2			
Epilepsy					,			1	1			
"			2	1	1	1			1	1		
Erysipelas	12	2	1	2			2	8	5	1		
**	7				1	1	1	2	1	1	1	1
Fever, Intermittent	4			8	2	, ,			1	1	-	
		2		1	2			1				
Fever, Remittent	48	9	8	2	9	11	8	11	5	1		
	54	5	7	12	11	6	2	6	6	8	2	
Fever, Typhoid	17	7	11	25	52	19	14	14	7	8		
	21	18	17	33	35	14	5	9	4	5	3	1
Fistula in Ano			1								-	
" " …	.									-		
Pita	. 87	1	2	8	5	11	1			4		J
"	. 28	8	2	1	1	3	2	11	1-9	1	1	1

TABLE VII.—CAUSES OF DEATH-

	D	EATH	8.					м	ONTE	18.				
		Sex.												
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October,	November.	December.	Unknown.
Males	1								1					
Females				1										
Males	、1			dades.	1									
Females		8		4						1		2		
Males														
Females		1		1								1		
Males	5						1	,	8		1			
Females		1		6					1					
Males	16					1	2	2	2		5	4		
Females				16										
Males	8				1							1	1	
Females		1		4			1							
Males,	82				8	6	6	8	10	18	6	9	15	1
Females		70	 	152	6	4	7	7	7	11	12	10	6	
Males	7					2			1	8			1	
Females		8		10				1	1	1				
Males	8									1	1	1		
Females		2		5						1			1	
Males	. 5						1		2		1			1
Females		5		10			1		2		1	1		
Males	1										1			
Females				1										
Males	8				1	4				1	2			
Females		8		11	1			1					1	
Males	4					1		2		1				
Females		1		5	1									
Males	28	ļ			2	2	1	2	5	4	8	2	2	
Females		84	ļ	57	8	1	8	4	8	5	5	3	9	****
Males	1		ļ							1				
Females		ł	l	1										

DEATHS.

·					1	AGES.	•		•			
CAUSES of DEATH.	Under 5 y'rs	6 to 10.	10 to 15.	15 to 20.	20 to 80.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Fracture				1								
"												
Gastritis							1					
								1	2			
Goitre												,
86									1			
Gravel								1	1	2	1	
"							1					
Gun Shot		8	2		6	1	4			,		,
"												ļ
Hæmoptysis				1	1		1					ļ
"					2445			1				ļ
Heart Disease	9	1	1	1	4	9	10	10	22	11	8	1
	6	2	4	1	7	6	6	15	15	5	1	٠,
Hemorrhage	2		1			1		1	1	1		ļ
46					2	1						
Hepatitis		1						2				
44	1					1						 .
Hernia	1							1	9	1		
"	1						2	1	i			
Herpes					1			****				
"			*****									
Hip Disease				1		2	2		2			
"					1	1		1				
Homicide	1				1	1				1		l
"	1									4		
Hydrocephalus	21	1	1									
"	88									1		l
Hydrophobia			1									l
			236.5						1			1

TABLE VII.—CAUSES OF DEATH—

]	DEATI	18.					N	l ont	нs.				
		Sex.												
	Males.	Females.	Unknown.	Total.	April.	May.	June,	July.	Angust.	September.	October.	November.	December.	Unknown
Males	2								1	1				
Females			ļ	2	,	****								
Males	202				21	18	24	19	36	31	16	17	25	
Females		161		874	9	16	10	24	26	29	20	11	14	2
Unknown		ļ	11			2	1		3	2		1	1	1
Males	20				1	2		4	4	3	1	1	4	
Females		20		40	4	2		2	2	1	4	2	8	
Males	1				1									
Females				1										
Males	9				3	2	1	1	1		1			
Females		9		18	2	8	1		1		1		1	
Males	4							2	٤.	1			1	
Females				4										
Males	5	.						2			1	1	1	
Females		5		10	1			1	1	2				
Males	18				2	8		2		2	2	1	1	
Females		2		15							- 1		1	
Males														
Females		1		1									1	
Males	1						1							
Females				1										
Males	25	! 	 		2	2	2	2	8	8	4	2	4	1
Females		22		47	2	2	4		2	2	1	4	2	
Males	16		-		5				8	1	8		2	
Females		6		22		1			2	1	1		1	
Males	87				2	3	2	5	8	8	4	7	8	
Females		46		88	6	7	8	6	2		7	7	8	
Males														
Females		11		11	2	1	1	1		1	4			
Males	8					2	1				1			
Females				3										

					1	AGES.						
CAUSES of DEATH.	Under5y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	80 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	Soand over.	Unknown.
Hydrothorax			1					1				
[nfantile	202				****							
"	161											
	11											
[nflammation	6	1	1	2		1	8	1	3	1		1
	6		2	2	4	1	2	1		2		
Influenza	1											
"												
Insanity				1	2	1	8	1	1			
66					8	1	1	2	2			
Intemperance						1		1				5
"												
Jaundice	1		1		1	1		1				
		 	1		1		1	1		1		
Kidney Disease			1		8	1		1	1	6		
" "	1	 								1		
Leprosy												
"									1			
Lightning					1							
"												
Liver Disease	4		1		2		8	4	8	8		
	5	1			2	2	4	5	1	2		
Lung Disease	5					8	4	1	1	2		
		1					1	1	1	2		
Measles	29	5	1	2								
	88	8	2	1	2							
Metria (Puer. F.)		ļ										
				1	5	5						
Morbus Brightii								2	1			

TABLE VII.—CAUSES OF DEATH-

	D	EATHS	3.					Mon	THS.					
		SEX.												
	Males.	Females.	Unknown.	Total,	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Males	4					2			1			1		
Females		1		5					****			1		
Males	2									1	1			-
Females				2										
Males														
Females		1		1		1								
Males	4				1			1			2			
Females				4										
Males	2							1					1	
Females				2										
Males														
Females	6			6		1		2		1		2		
Males	11	.,,,,,				1	1	2	2	2	1	1	1	****
Females		18		24		1	1	2	4	8	1	1		
Males								.9						
Females	1			1		1							1	
Males	122				17	9	9	14	17	15	10	18	16	2
Females		126		248	15	9	10	12	15	14	18	14	19	
Males	41	120		377	2	8	2	1	5	10	7	8	8	
Females		88		74	2	7	2	4	6	2	6	9	2	
Males	4				1	1			2	E			1	
Females		1		4	- 9			100	15					
	8	******				****	1	111		1	1			
Males		10		18	1	3	1			1		2	****	***
Females		100	****	. 75	19	1	1 1		3	10		1		****
Males	10						-	1	1		3	1	1	
Females		7	****	17	8	1	****	1	****	***	1		1	****
Males	1									****		1		****
Females	******	1	****	2			****	****				1		****
Males	6				1	1	1			•	2	1		4000
Females		0	ı	8	1	I		1			1	1		

					I	Ages.						
CAUSES of DEATH.	Under 5 y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	80 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Mortification									9	1	1	
Murder					1		1					
"												
Nausea Marina												
		1										
Necrosis							1	1	1	1		****
Nephritis								1		1		
"			•									
Neuralgia	 											
"	 					1	2		1	2		
Noma (Canker)	7								1	1	2	
	10				1					1	1	
Ovarian Disease		ŀ			****							
"		1	 -									
Old Age	ļ					****		1	7	52	61	
	ļ		1						9	48	67	18
Paralysis	1	1			****	100	2	7	7	18	5	
	1	1	•	1 2	1	1	1	4	11	11	1	
Parotitis	8				****				1			
44								***				
Pericarditis					1				1	1	,,,,	
"	2				2			1	2			
Peritonitis						3	1	2	1			
"		1			2	8			1			
Piles	1		ı									
			1					****	- 10			
Pleurisy		1	1				1 3	1	2			
"	1	١	.	. 1			1					

TABLE VII.—CAUSES OF DEATH—

	D	ЕАТН	s.					M	ONTE	IS.				
		Sex.												
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown,
Males	161				24	21	11	8	10	16	28	21	26	1
Females		. 94		256	16	8	9	7	13	7	5	18	16	
Unknown			1								1			
Males	8				1	2	1		1	1	2			
Females		9		17	1	2	2	1	1	1			1	
Males											12			
Females	1			1			1							
Males	1						1							
Females				1			/-							
Males	18				1				4	1	1	2	4	
Females		2		15								1		1
Males	22					4	5		2	2	2	8	4	
Females		10		82	2	1		1	1	2	1		2	
Males	21				2	8		3		1	2	1	8	1
Females		25		46	4	8	6	2	1	1	1	1	6	
Males	11				1		8	1	1	2	1	1	1	
Females		9		20	1	1	2		2	1	1	1		
Males	6				1	1	1	2	1					
Females		2		8	1		1							
Males	1							1						
Females				1										
Males	26		 		4	2		4	5	3	4	8	1	
Females		9		85	8	2	1					1	2	
Males	1										1			
Females		1		2				1						
Males	12					1		2	3	2	8		1	
Females		8		20	1				1	1	2		2	1
Males	2							1		1				
Females	 			2										
Males	1												1	
Females				. 1										

DEATHS.

						Ages						
CAUSES of DRATH.	Under 5 y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	80 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Pneumonia	71	4	8	4	7	9	10	19	22	5	4	3
"	41	4	6	4	11	19	3	8	7	8	1	2
"		 								1		
Poisoned	6						1		1			
	4	1				2	1					
Postpartum Hem'rage		ļ										
"	ļ	-				1						.,.,
Quinsy							1					
"												
R. R. Accident		1	1	1	4	,1		4				1
									1			1
Rheumatism		2	2	2	3	8	5	2	8			
		2	1		2	1		8		1		
Scarlatina	18	6		1		1						
**	19	5	1			****						
Scrofula	4	1	1		2	1		1	1			
	6	ļ .		1		45.0		2			 	
Smallpox	1	2			2	.,,,					ļ	
	1					1					 .	
Snake Bite		1	j									••••
" "												
Spine Disease	11	8	8		1		2		4			1
" "	1	1	8				2	1	,			1
Splenitis								1				
"	1											••••
Stomach Disease	6					1		2	2			
" "	8	ļ				1		2	1			
Suddenly	2											
"		 						,				
Suffocation	1	ļ										•
44		l	l				l					

TABLE VII.—CAUSES OF DEATH—;

					•									
	DE	ATHS.						M	ONTH	8.		•		
		SEX.												
	Males.	Females.	Unknown.	Total.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Tuknown.
Males	19				3	6	8	8				1	3	
Females		4		28	+1.4+	1						2	1	
Males	24			-				23	1					
Females		2		26				2		****				
Males	86				1	3	2	9	9	4	5	4		
Females		40		76		2	1	6	10	8	6	3	8	
Males	1										1			
Females				1										
Males	4						1		1			1	1	
Females		6		10		1		2				2	1	
Males	11			•			1	1	3	5			1	
Females		9		20		1		3	2	2		1		
Males	2				1							1		
Females		5		7		1			1	1	2			
Males	2			ļ					1				1	
Females				2										
Males	295				26	24	17	37	48	51	88	28	28	3
Females		266		568	11	18	28	40	39	41	25	24	36	4
Unknown	ļ		2							2				
Males				.										
Females		2		2		1		1						
Males	54					3	1	10	12	9	6	4	7	****
Females		66		120	4	7	8	7	12	16	10	4	2	1
Males	10					1	2	2	2		1		2	
Females		2	 	12						1			1	

DBATHS.

						AGE	٠.					
CAUSES of DEATH.	Under 5 y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	80 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Snicide				2	8	1	2	3	6		2	
				1		2		1				
Sunstroke					5	7	5	2	2	1	1	1
"				1			1					
Teething.	36											
	40											
Tetanus				1								
* **												
Throat Disease	3									1		
4 4	2	1			1	1				1		
Thrush	11					1						
44	5				2	2				30)	Ž.	
Tumor			1				1					
44		1000			1			8	1			
Ulcers					1				1			
Unknown	157	15	11	6	15	14	8	10	18	8		38
	138	. 4	6	11	21	16	14	12	14	4	1	1 22
**	100											2
Uterus Disease					111						1	
te Market			3.77		2		P. T					
Whooping Cough	47	9	1		1		100	1				9
- Goping Cough	65	1										
Worms	8	1	1								m	
	2			1,10	100	1	1.84			40		
									****	****	****	

The following table, compiled at the Agricultural College, Lansing, from observations made at that Institution, is again inserted in the report. The weather being an important agent in connection with the public health, it is desirable that similar tables from other localities should hereafter appear. No others were accessible this year.

METEOROLOGICAL TABLE
SHOWING Mean Temperature and Rain-fall, from April 1st to December
31st, 1868, inclusive.

MONTHS.	Mean Temperature.	Amount of Rain-fall—in inches.
April	43°68	1.828
May	59°08	2.800
June	68°46	3.546
July	77°19	1.106
August	70°33	2,420
September	58°77	2.954
October	. 45°19	1.106
November	36°77	2.439
December	21°16	1.350
Mean temperature	53°40	
Total rain-fall—in inches		19.55

Mean temperature for corresponding months of 1867, was 53°92; and amount of rain-fall for those months, was 18.99 inches.

The greatest number of deaths was in September, 1,041; the least, in June, 482.

The number of deaths for quarterly periods was, for the Quarter ending June, 1868_______1,471, or 23.26 per cent

- " September, 1868 ____ 2,771, or 43.80
- " December, 1868..... 2,046, or 32.34 "
- Dates of deaths not returned..... 38, or .60 "

The deaths from specified causes are divided among the several classes, as follows:

- 2. Constitutional Diseases 1,176, or 20.67 "
- 4. Developmental Diseases 876, or 15.39 "
 - 5. Violent Deaths _____ 358, or 6.29 "

One person died from snake bite; 1 from hydrophobia; 1 from suffocation; 1 from lightning; 7 from homicide; 23 from suicide; 15 from railroad accidents; 17 from poison; 26 from sun-stroke; 16 from gun-shot wounds; 41 from burns and scalds; 89 from drowning. About 150 died from other casualties not specifically arranged, and often not definitely returned; many losing life in cutting timber, and others from fractious domestic animals. A woman 44 years old was lost in the woods of Shiawassee county, and perished.

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The following table enumerates the ten causes producing the highest rate of mortality, with the number of deaths resulting therefrom, and percentage of all deaths in the State from April 5 to December 31, 1868:

CAUSES OF DEATH.	Number.	Per Centage.
Consumption	841	13.31
Infantile	374	5.9= •1
Typhus Fever	342	5.4
Dysentery	320	5.0-6
Pneumonia	256	4.05
Diarrhœa	249	.93
Old Age	248	92
Remittent Fever	228	3.60
Cephalitis	222	3.51
Casualty	153	2.42

Consumption—The number of deaths from consumption is 841, or 13.31 per cent. of the whole number of deaths, or 111 less deaths from this disease than were returned last year. Four hundred and twenty-four males, and 417 females, or nearly equal numbers of each sex died of this disease. Seventy-nine died from consumption under 5 years; 9 between 5 and 10 years; 21 between 10 and 15 years; 73 between 15 and 20 years; 211 between 20 and 30 years; 125 between 30 and 40 years; 101 between 40 and 50 years; 72 between 50 and 60 years; 85 between 60 and 70 years; 40 between 70 and 80 years; 10 over 80 years, and 15 whose ages were unknown

This disease seems least fatal between the ages of 5 and 10, and reaches its culminating point between the ages of 20 and 30, calling for nearly 25 per cent. of its victims at that period.

Infantile—Three hundred and seventy-four persons are listed under this head, or 5.91 per cent. of the whole number of deaths. It is largely made up from those dying before the age of 1 month; the causes of death being indefinitely stated, or returned as "unknown." When we add to this the very great number of children under 5 years, classed under other diseases, the aggregate number almost passes belief.

Typhus Fever—Under this head are included all continued, miasmatic fevers. There are 374 cases, or 12 more than were returned in the previous report.

Dysentery—Three hundred and twenty deaths are reported from this disease, of which 240, or 4ths of the whole number are returned as occurring under the age of 5 years.

Pneumonia—Which stood 3d on the list last year, is the 5th in the returns for this report; the number of deaths being 256 in this, and 313 in the previous report. One hundred and twelve deaths are reported under the age of 5 years.

Diarrhea—Stands 6th on this list, with 249 victims; 204 under 5 years of age.

Old Age—Under this head, 248 deaths are reported. It is **Probable** that more accurate returns would show that in some cases, death resulted from some other cause.

Remittent Fever—Two hundred and twenty-eight deaths are classed under this head, of which 151 are simply returned as Fever."

Cephalitis-Claims 222 victims.

Casualty—One hundred and fifty-three persons under this head, including all cases of accident or negligence, resulting in leath, not specified under other heads.

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TABLE VIII.—OCCUPATIONS.

TINGUISHING, by Classified Occupations, the number, with the aggate and average ages of all whose occupations were returned, who eased from April 5 to December 31, 1868, inclusive, above the age 20 years.

	rsons.	Agı	es.
OCCUPATION.	No. of Persons	Aggregate.	Average.
All classes of occupations	1,472	71,282	48,48
Cultivators of the earth	768	89,424	51,89
Active mechanics abroad	66	3,181	48.20
Active mechanics in shops.	89	4,889	48.70
Inactive mechanics in shops	38	1,896	49.8
Laborers—no special trades	142	5,952	41.9
Factors laboring abroad	58	2,285	89.4
Merchants, financiers, agents, &c	88	8,729	45.0
Professional men	48	2,220	51.6
Females	185	8,256	44.7
Cultivators of the earth	768	39,424	51.89
Farmers	765	39,217	51.21
Gardeners	2	150	75.00
Horticulturist	1	57	57.00
Active mechanics abroad	66	3,181	48.20
Builders	8	112	87.88
Carpenters and joiners	45	2,304	51.20
Masons and bricklayers	14	564	40.29
Well digger	1	45	40
Wheelwrights	3	156	52.00

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						Ages	٠.					
CAUSES of DEATH.	Under 5 y'rs	5 to 10.	10 to 15.	15 to 20.	20 to 30.	80 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown
State cide				2	8	1	2	8	6		2	
44				1		2		1				
State					5	7	5	2	2	1	1	1
"				1			1				22.5	
Cething	36											
**	40											
Petanus				1								
- "												
Phroat Disease	8									1		
" …	2	1			1	1				1		
Thrush	11											
"	5				2	2				2.1		
Tumor			1				1					
					1			8	1			
Ulcers					1				1			
44												
Unknown	157	15	11	6	15	14	8	10	18	8		88
44	188	4	6	11	21	16	14	12	14	4	1	30
"												5
Uterus Disease												
46 46					2						:.	
Whooping Cough	47	9	1		1			1				9
	65	1	10.1					,				
Worms	8	1	1									
44	2											

TABLE VIII—CONTINUED.

		Sons.	Agı	is.
CLASS.	OCCUPATION.	No. of Persons	Aggregate.	Average.
ш.	Active mechanics in shops	89	4,889	48.75
	Baker	1	57	57
	Blacksmiths	15	695	46.88
•	Bleacher	1	85	85
	Boiler maker	1	58	58
•	Brewers	4	160	40.00
.*	Cabinet makers	8	200	66.67
	Carriage and wagon makers	3	154	51.88
•	Chair maker	1	58	58.00
	Chair seater	1	78	78.00
•	Clothier	1	50	50.00
	Cooks	2	75	87.50
	Coopers	8	489	61.12
	Currier	í	24	24.00
	Cutler	1	24	24.00
	Edge tool maker	1	86	86.00
	Gunsmith	1	88	88.00
	Hatter	1	68	68.00
	Machinists	7	294	42.00
	Millers	8	889	48.68
	Painters	8	824	40.50
	Potter	1	28	28.00
	Tinsmith	1	58	58.00
	Yeast manufacturer	1	44	44.00
	Mechanics—trades not specified	17	878	51.85
IV.	Inactive mechanics in shops	88.	1,896	49.80
	Barbers	4	148	85.75
	Engraver	1	54	54.09
	Jeweler	1	67	67.00
	Printer	1	24	24.00
	Saddlers and harness makers	4	155	88.75

TABLE VIII-CONTINUED.

<u> </u>	rsons.	Aeı	ts.
OCCUPATION.	No. of Persons	Aggregate.	Average.
Inactive mechanics in shops—(Continued.)			
Shoe makers	18	999	55.50
Tailors	8	878	47.95
Watch maker	1	76	76.00
Laborers—no special trades	142	5,952	41.90
Laborers	185	5,750	42.60
Miners	7	203	28.86
T. Factors laboring abroad	58	2,285	89.40
Boat steward	1	222	22.00
Brakeman	1	90	20.00
Butchers	7	812	44,57
Contractor	1	56	56.00
Drayman	1	75	75.00
Drovers	8	100	88.83
Engineers	5	204	40.80
Firemen	2	49	24.50
Lumbermen	18	576	44,80
Lumber inspector	1	28	28,00
Patent right dealer	. 1	28	28.00
Railroad conductor	1	24	24.00
Railroad repairers	2	57	28.50
Sailors	11	416	87.82
Soldiers	2	52	26.00
Speculator	1	74	74.00
Street car driver	1	25	25.00
Teamsters	2	64	82.00
White-washers	2	118	56.50
I. Merchants, financiers, agents, &c.	88	8,729	45.00
Auctioneer	1	48	48.00
Bankers	2	121	60.50

TABLE VIII—CONTINUED.

		Bons.	Aeı	ie.
CLASS.	OCCUPATION.	No. of Persons.	Aggregate.	Average-
VII.	Merchants, financiers, agents, &c.—(Continued.)			
	Boarding house keeper	1	44	44.00
	Bookkeepers	5	148	28.60
	Clerks	14	464	88.14
	Druggist	1	46	46.00
	Fur dealers	2	70	85.00
	Grocers	8	485	54,88
	Hotel keepers	7	321	45.86
	Insurance agents	2	150	75.00
	Livery keepers	2	116	58.00
	Merchants	81	1,469	47.40
	Real estate agents	2	118	59,00
	Saloon keepers	4	167	41,75
	Telegrapher	1	22	22.00
VIII.	Professional men, &c.	48	2,220	51.65
	Clergymen.	11	649	59.00
	Custom house officer	1	28	28.00
	Dentists	2	98	46.50
	Justices of the peace	2	181	65.50
	Lawyers	5	248	49.60
	Notary public	1	42	42.00
	Physicians	11	649	59.00
	Policeman	1	84	84.00
	Public works	1	68	68.00
	Publishers	2	99	49.50
	Sheriff	1	48	48.00
	Students	2	42	21.00
	Surveyors	8	89	29.67

TABLE VIII-CONTINUED.

		Persons.	Aeı	18.
CLASS.	OCCUPATION.	No. of Per	Aggregate.	Average.
IX.	Females	185	8, 256	44.78
	Domestics	2	76	88,00
	Dress makers	5	183	96,40
	Housekeepers	145	6,750	- 46,58
	Merchant	1	79	79.00
	Milliners.	2	65	89.50
	Nurse	1	49	42.00
	Operatives	1	84	84.00
	Postmistress	1	66	66.00
	Seamstresses	5	182	26.40
	Servants	5	225	45.00
	Sister of Charity	1	90	20,00
	Spinster	1	57	57.00
	Tailoresses	5	808	60.60
	Teachers	10	275	27.50

The number whose occupations are classified in this report, is 1,472, or 23.47 per cent. of the whole number of deaths reported. Of this number, 1,287 are males, and 185 are females. Deducting 3,330, which is the number of deaths under twenty years of age, leaves 2,996, and estimating one-half of these as females, and taking into consideration 185 females whose occupations were returned, it would show that the former occupations of 211 deceased males, above the age of twenty years, were not stated. But many of the occupations returned were those of boys and girls, pupils of schools, or who were but partially employed.

TABLE IX-CAUSES OF DEATH.-CLASSIFIED ARRANGEMENT.

EXHIBITING, by Counties, the Registered number of Deaths from various Specified Causes—Statistically Classified, (Still-Births included.) from April 5, 1868, to December 31, 1868, inclusive.

									100	INI	COUNTIES	:							ı
CAUSES OF DEATH.	STATE.	Allegan.	Alpena,	Antrim.	Burry.	Bay.	Berrien,	Branch.	Calhoun.	Cass.	Charlèvoix.	Cheboygan.	Clinton.	Euton.	Emmet	Genesee.	Gd. Traverse.	Gratiot	Hillsdale,
All Causes	6,872	175	=	19	2	8	152	159	202	108	9	4	148	105	252	149	8	68	140
Specified Causes	5,691	160	10	14	69	20	145	125	181	94	90	*	184	98	15	140	16	65	189
CLABBES.																			
I.—Zymotic Diseases.	1,296	#	-	0)	22	18	88	88	8	88	1	04	4	18	-	14	4	9	3
II.—Constitutional Diseases	1,176	22		-	17	9	85	35	40	88	1	1	88	24	1	25	Ġ1	t-	8
III.—Local Diseases	1,985	61	*	9	16	20	43	35	55	89	91	G4	45	88	01	23	00	13	7
IVDevelopmental Diseases	876	24	93	00	10	83	83	14	88	9	-	1	16	6	6	16	4	60	5
VViolent Deaths	828	-	GI	64	1	4	13	6.	Ξ	60	1	1	04	6	1	10	00	8	4
Оврква.																			
CLASS I.—1. Miasmatic Diseases	1,256	4	+	OR.	2	18	88	18	\$	88	1	01	88	18	H	127	*	9	28
2. Enthetic Diseases	O.S.	-	1	1	1	1	1	1	1	1	1	1	÷	-	1	i	1	1	1
8. Dietic Diseases	is.	1	1	-	1	1	1	:	1	1	1	İ	1	1	1	1	i	1	-
4. Parasitic Diseases	88	2			•			-	ij		1		Tree	-			-	1	~

CLASS II.—1. Distinctic Discases	1. 247	*	-	-	.	-	-	,	77	-		-	_	_	_	_	_	_
2. Tubercular Diseases.	656	8	-	-	7	•	88	22	88	*	:	:	22	- 61	-	8	a	80
CLASS III.—1. Discares of Nervous System	2962	18	;	-	1-	1-	11	16	12	-	-	•	- 00	<u> </u>	i	16	-=-	4
2. " Organs of Circulation	176	01	_	:	*	8	_	1-	4	69	=		ĸ	-		-		_
8. " Respiratory Organs	816	15	-	-			10	8	9	œ	+		=	12		9		4
4. " Digestive Organs	816	8	91	4	4	4	#	90	*	=	-	04	16	6	61	73	_	4
5. " Urinary Organs	8	_	i	-	=	<u>:</u>	:	_	4	:	$\frac{\cdot}{i}$	$\frac{\cdot}{1}$:	-	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$:	
6. Generative Organs	4	Ť	i	Ī	-	<u>:</u>	÷	÷	÷		:	 -	-	÷	$\frac{\cdot}{1}$	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	÷
Organs of Locomotion	. 15	i	Ī	-	÷		÷	$\dot{\exists}$	÷	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	+	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	\div	:	:	
8. "Integrumentary System	8	÷	-	Ť	÷	<u>:</u>	÷	÷	;	-	:	_		93	$\frac{\cdot}{\cdot}$			-:
CLASS IV.—1. Developmental Diseases of Children	198	9		-	31	18	28	9	16	6	-		<u> </u>	61	κ.	œ	-	
9 Women	26	8	_	-	00	8	63	∞	20	-	$\frac{\cdot}{\cdot}$	<u>:</u>	*	-	Ŧ	29	$\frac{\cdot}{1}$	+
8. " Old People	***	=	:	-	4	_	90	10	1-	$\frac{\cdot}{:}$:	-	10	4	4	-	03
4. Diseases of Nutrition	88	Ì	-		-		.	<u>:</u>	$\frac{\cdot}{\cdot}$:		:		-	:	81	$\frac{\cdot}{1}$	
CLASS V1. Accidents or Negligence	728	9	61	63	1	7	13	1-	=		- 		61	<u> </u>		æ	•	œ
2. Homicide	t-	i		1	i	÷	$\frac{\cdot}{\cdot}$:	÷	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	-	$\frac{\cdot}{\cdot}$	÷	-	- -	\div	$\frac{\cdot}{\cdot}$
8. Suicide	3 5		-	i	<u> </u>	- -	:	81	- i-	-;-	-					-	÷	 -
4. Lightning		Ť	i	i	<u> </u>	<u>:</u>	- :	÷		$\frac{\cdot}{\cdot}$	\div	\div	<u>:</u>	:	: -	$\frac{\cdot}{1}$	<u>:</u>	÷
Causes not Specified	. 68	15	-	10	13	8	ţ-	4	8	•	~	-	=	•	18	0	F-	10

TABLE IX-CONTINUED.

CAUSES OF DEATH, All Causes. Specified Causes. Chasses. I.—Zymott Diseases. II.—Local Diseases. V.—Violent Decases. S. Enthetic Diseases. S. Enthetic Diseases. S. Enthetic Diseases. S. Enthetic Diseases. S. Enthetic Diseases. S. Dietic Diseases. S. Enthetic Dise									Ö	COUNTIES.	(TI	σΩ 621								
88 97 116 12 22 154 188 241 88 89 212 70 158 48 57 67 68 140 48 46 57 67 68 140 48 46 57 67 68 140 48 46 57 67 68 140 48 46 57 67 68 140 48 46 57 67 68 140 48 46 57 67 68 140 48 46 57 68 140 111 111 111 111 111 111 111 111 111	CAUSES OF DEATH.	Houghton,	нотиН.	Ingham.	.alnoI	losco.	Ieabella.	Jackson.	Kalamazoo.	Kent.	Lapeer.	Leelanaw.			- 1,000	Manistee,	Marquette.	Mason.	Mecosta.	Menominee.
8688 61 40 48 47 115 26 8 18 176 228 76 85 200 68 140 48 46 46 46 46 46 46 46 46 46 46 46 46 46				1 2		15	81	152	1 88	241	1 %	88	120	92	1 23	8	15	133	88	-00
LISES SECTION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			88			6	50		176	228	91	35	200	8	140	8	46	25	32	10
668 6 4 24 27 4 8 8 47 15 1 42 9 86 14 11 14 6 14 6 15 19 2 2 16 80 12 8 29 10 8 14 10 8 10 4 10 10 8 10 8 10 4 10 10 10 10 10 10 10 10 10 10 10 10 10 </th <td>CLASSES.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	CLASSES.																			
6 4 24 24 88 15 8 17 40 5 21 12 37 2 12 58 61 87 28 15 64 29 29 6 14 6 15 19 2 2 16 80 89 12 8 29 29 6 18 4 5 6 1 9 18 12 6 8 17 8 10 4 10 7 11 15 26 2 27 27 46 15 14 9 85 14 10 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>80</td> <td>88</td> <td>88</td> <td>47</td> <td>15</td> <td>-</td> <td>46</td> <td>6</td> <td>86</td> <td>14</td> <td>11</td> <td>68</td> <td>9</td> <td>1</td>						1	80	88	88	47	15	-	46	6	86	14	11	68	9	1
21 12 37 37 2 12 58 61 57 28 15 64 29 29 23 6 15 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	II.—Constitutional Diseases			24		**	80	85	4	88	15	90	84	17	9	10	77	60	4	00
868. 7 11 15 26 1 9 18 12 8 29 10 25 2 10 4 10 868. 7 11 15 26 2 27 27 46 15 1 41 9 85 14 10 868. 7 11 15 26 2 27 27 46 15 1 41 9 85 14 10			15			61	12	28	19	87	88	15	3	68	56	83	9	14	15	H
13 4 5 6 1 9 18 12 6 8 17 8 10 4 10 7 11 15 26 9 27 27 46 15 1 41 9 85 14 10 1 1 1 1 1 1 1 1 1 1	IV.—Developmental Diseases	14			-	68	01	16	30	89	12	00	88	10	22	21	15	4	9	1
7 11 15 26 29 27 27 46 15 1 41 9 85 14 10						-	1	6	18	15	9	00	11	00	10	*	10	03	4	T
7 11 15 26 9 27 27 46 15 1 41 9 85 14 10	Оврева.																			
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2. Enthetic Diseases	1	1	1	1	1	1			1	_	i	77			İ	1	1	Ť	1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8. Dietic Diseases	1	1			i	1	1		-		1	1	_			_	_	1	1
	4, Parasitic Diseases	_	_	_				-	_	1				Š	_	-	-		1	1

CLASS IL.																						
	71	ercular	g, Tubercular Diseases.	·	9	4	18	67	90	-	83	98	81	12	00	88	13	30	*	4	00	1 8
CLASS III.	1. Die	eases of	CLASS III,—1, Diseases of Nervous System		15	90	t-	0	=	60	15	61	10	0.	+	11	00	10	9	-	01	-
	oi		Organs of Circulation	ation	i	:	01	00	1	1	6	1-	00	4	-	=	01	10	1	-	-	- 1
	50		Respiratory Organs.	uns	-	01	9	10	-	1	6	14	15	61	H	14	9	00		91	-	4
	+		Digestive Organs		00	9	11	19	-	6	15	87	45	14	18	21	13	6	16	-01	10	6
	10		Urinary Organs		1	1	4	-	1	1	7	-	9	Ť	:	+	1	H	+	+	- 1	-
	6,	1.	Generative Organs	ле	1	1	i	- 1	-	- 1	1	- 1	+	1	- 1	+	1	1	- 1	1	1	
	.:		Organs of Locomotion	_	1	+	-	1	1	-	1	01	÷	1	1	1	1	:	-	- 1	1	1
	œ'	:	Integumentary System	ystem	i	1	1	1	1	1	-	91	91	-	-	1	1	H	1	+	1	- 1
CLASS IV1	. Dev	elopmen	CLASS IV1. Developmental Diseases of Children	hildren	6	9	ţ-	60	QΝ	01	-	=	81	10	7	14	10	99	7	13	79	91
31	oi	:	M :-	Women	4	1	+	1	1	1	01	10	н	+	:	- 9	-	-1	-	;	1	:
-		ę	10 .,	Old People	1	-1	9	10	÷	1	=	139	16	60	*	6	4	22	1	+	-	4
4	. Dis	Jo sasse	4. Diseases of Nutrition		+	1	н	H	1	1	01	1	÷	÷	1	1	+	+	÷	-	1	1
CLASS V1.	Acci	dents or	CLASS V1. Accidents or Negligence		13	4	2	9	-	1	9	61	=	9	60	14	G1	10	4	10	01	00
oi	Нош.	icide	2. Homicide	-	1	+	1	1	1	1	;	1	1	1	1	-	1	1	- 1	1	1	H
80	Suic	de	3. Suicide		1	1	1	-	1	1	60	-		-	- 1	21	-	1	-:	- 1	+	- 1
4	Ligh	4. Lightning			1	i	1	1	+	1	1	+	+	1	1	+	+	1	1	1	1	1
Causes not Specified	pecif	ed			18	4	6	80	00	Q4	16	15	18	P+	4	120	01	100	1	11	90	00

TABLE IX-CONTINUED.

								•	OU	COUNTIES	ES							
CAUSES OF DEATH.	Midland,	Мопгое.	Montealm.	Muskegon.	Newaygo.	Oakland.	Осеапа.	.подвиотиО	Ottawa.	Saginaw.	Sanilac.	Shlawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	.эпувW
All Causes.	00	118	15	164	40	167	48	15	E	241	#	128	199	129	23	184	166	1108
Specified Causes	00	101	33	138	22	149	75	13	154	216	8	118	164	118	25	125	141	966
CLASSES.													Π					П
I.—Zymotic Diseases	1	17	12	#	18	58	01	-	88	4	0,	25	35	22	19	25	7	222
II.—Constitutional Diseases	89	26	6	21	00	4	6.	4	88	86	1-	32	85	22	13	80	88	188
II.—Local Diseases	94	45	26	92	9	8	12	10	29	98	=	3	49	48	24	7	8	387
V.—Developmental Discases	60	18	90	12	30	17	6	1	26	89	90	1	30	00	1-	12	18	200
V.—Violent Deaths	****	9	90	9	10	10	99	91	1-	00	*	90	18	=	-	10	Ξ.	49
Овреве	_																	
Class I.—1. Missmatic Diseases		17	12	7	18	88	98	-	55	4	51	25	35	87	8	81	64	210
2. Enthetic Diseases		1	-	1	Ī	1	1	1	:	1	1		- 1	1		1	1	1
3. Dietic Diseases	:	-	1	1	- ;	- 1	1	1	i	1	1		-1	1		:	1	*
4. Parasitic Diseases.				01	-	1		-	64	00	:		1	-	: -		01	00

CLASS IL1. Diathetic Diseases	Пвевев	1	0	20	0	21	29		•	0		2	0	g	7	9	*	0#
2. Tubercular Diseases.	r Diseases.	98	80	-	15 8	85	1-		19	88	_	8	24	22	12 24	88	148	*
CLASS III.—1. Diseases of Nervous System	of Nervous Bystem	-	15		8	3	80		63	1-		9	11	22	5 12	80	182	***
.,	Organs of Circulation	1	9		1	6	:		09	NS.		00	-0	10	53	~	- 64	88
:	Respiratory Organs	1	10	7	4		60		15	15			10	9	=======================================	-	8	30
	Digestive Organs	1	12	18 8	30	18	9		88	#	8	15	12 1	10	118	=	184	•
:	Urinary Organs	1	-	1	1	GI	-	1	-	1		-	28	-	-	-	:	
: v	Generative Organs	1	1-	1	,	-1	1		-			- 1	Y		1		:	
:	Organs of Locomotion	1	1		-	- 1	1	4	1	1		:	- 6	7	-	-1		30
; œ	Integumentary System	1	F		-	-	1		-	н		1	1	-	:	_		
CLASS IV.—1. Developm	CLASS IV.—1. Developmental Diseases of Children	01	6	28	80	10	10		10	12		9	11	60	*		2	148
.;	Women	:	-		01	7	01		4	*		65	00	φ¥		60		œ
; %	" Old People	1	60	1	-	1-	1		10	9	QR	01	6	99	69		4	_
4. Diseases	4. Diseases of Nutrition	1	1		63	-	1		91	Q1				1	1			ab
CLASS V1. Accidents or Negligence.			9	90	70	*	61	CN.	9	9	*	8	*	=======================================	10	=	4	4
2. Homicide		1	1	1	•	_	-	- 1	-	1	_	- ;	-	1	1			201
3. Suicide		1	1		-	-1	1		1	69			80		1	-	-	
4. Lightning	4. Lightning	-	1	1	•	-0	1		-	:			1		:	1		*
Causes not Specified		1	=	00	36	18	61	Ç1	17	52	_	01	85 1	16	00	9 25	112	29

TABLE IX-CONTINUED.

								CO	ND	COUNTIES	0 2							
DISKASKS.	STATE,	Allegan.	Alpena,	Antrim.	Barry.	Berrien.	Branch.	Calboun,	Casa.	Charlevolx,	Срероувап,	Chinton.	Eston.	Emmet.	Сепевее,	Gd, Traverse.	Gratiot.	Hillsdale.
CLASS I—Zymotic Diseases. Onden 1—Miasmatic.			1	1	1						-							
Totals	1,256	4		54	16	18	88 81	48	83	-	67	88	18	1	12	4	9	60
1. Erysipelas	47	-	1	- !	:	-	-	4	;			1	1	-	1	- 1	1	-24
2. Congestive Chills and Ague, (a)	88	77	1	1	- 1	-	0)	09	01	1	i int	00	-	1	69	1	н	01
8. Remittent Fever, (b)	855	90		1	io	9	6	4	1	- 1	1.00	1-		1	-	1	+	-
4. Typhus Fever, (c)	851	1-	-		11	7	14 12	12	80	1	1.37	11	on	-	H	91	01	18
5. Carbuncle	1	1	1	:	:		1	1	1	:	- •	1	1	1	1	1	1	
6. Cholera	1	-	1		1		1	1	1	- 1	-7	1	- 1	1	1	I	1	1
7. Cholera Infantum	13	01	-	:	1	-	-	40	4	1		-	1	1	1	-	-	-
8. Croup	79	-	1	_	1	•	-	8	Q1	1	-	91	1	i	1	1	1	60
9. Diphtheria	69	1		1	00	-	1	93	*	1	- 6	61	80	1	-	-	1	-
10. Mumps	69	i	-		1	09	1	1	1	1		1	1	1	1	1	1	1
11. Quinsy	1	t	1	-	1	1	1	1	1	1		1	1	1	1	1	1	1
19. Bheumatism	86	10		÷	-		60	1	1 1	****	18		1					1

12 See lating	195	I	V	•	;		1	10	1	-	1	11		00	:	
14. Small Pox	90	-	-	:	1	-	1	-	1	-	- 1	-		,	- 1	
15. Whooping Cough	120	H		4	1	2	60	11	0)	J	H	60		-	-	-
16. Measles	80	64		H	G9	-	1	1		-	- 1		_	- 1	:	1
17. Metria	11	-		1	-	,	- 1	-	03	,	69			- 1	-1	
co 18. Spine Discases, &c.(d)	35	00		1	- (-	90	ci		00			-	- A	4
19. Influenza	-	-		,	-		-	-	-		- 1	1			- 1	
Order 2—Enthetic.						_		_	_				_	_		
Totals	64	-	.,	- 0	- 1		1	= 7		_	-	1			- 1	1
1. Hydrophobia.	=	1		1	-	- 1	1	_,		_,	- 1	-			_ :	
2. Snake Bite	-	1		ľ			- 1		-	-	1				- :	
Orden 8-Deete.	_												_			
Totals	20	-	- 9	1	-			- 1	-			+			- 2	_
1. Goitre	-	1	-,1		Ť	- 1	-	- 1	-						_ !	_
2. Intemperance	4			1	÷		-		1			-		-;	- 1	- 1
Order 4—Paraeitic.	-						_	_	_			-				
Totals	88	i	1.9	н	÷		÷	•		_4	-				- 1	G1
1. Thrush	8			H	÷	- 1	-					÷				
2. Worms	18	-	,	1	-		-	=		Ι	H	-		- 1		
CLASS II—Constitutional Diseases. Onder 1—Diathetic.									_			-				
Totals	247	*		60		-	(f)	12	0.	:	6	10	_	-	*	18
1. Ansemia and Dropsy	142	00		-	_	_	-	-	9			4	_	2	7	

TABLE IX-CONTINUED.

				İ					00	N D	COUNTIES	ac.						
DISEASES.	.atata	Allegan.	Alpena.	Antrim.	Barry.	Bay.	Berrien.	Branch.	Calhoun.	Casa	Charlevoix,	Срероудап.	Clinton.	Eaton.	Emmet.	Gd, Traverse,	Gratiot.	Hilledale,
CLASS II. ORDER 1—Continued.													1			1	_	1
2. Cancer	1:	1	-	-	01	1	:	03	1	80	i	-	***	-	-	1	-	
8. Noma, (Canker)	88	7	-	1	1	1	1	1	9	:	1	1	00	-	1	1	1	
4. Mortification	×G	1	-	1	1	1	1	i	i	1	1	i	1	1	-	1	-	113
Order 2—Tudercular.													H		-	_	_	
Totals	959	80		-	17	9	88	61	88	17	1	;	24	19	-	66	.04	8
1. Phthisis, (Consumption of Lungs)	849	18	-	-	18	9	26	16	50	18	1	1	01 01	19	-	88	-	25
2. Scrofula	50	1			-	1	-	01	1	-	1	;	+	-	1		+	1
8. Hydrocephalus	99	Q1	1	1	-	-	-	H	-	1	i	1	+	i	1	H	-	1
4. Hæmoptysis	4	i	;	1	į	1	:	1	1	1	1		1	1	***	1	į	
CLASS. III—Local Diseases. Onden 1—Nervous System.													-		-	_	-	
Totals	262	13	1	-	1-	5-	17	16	15	11	÷		œ	90	1	16	-	18
1. Cephalitis	923	00	1	-	80		0	9	61	00	+	:	9	- 1	1	4.		60
2. Apoplexy	87		and the last last	1	-	-	-	*	н	00	_ <u>:</u>		_	-		-	_	

9. E 8484 J 948	5	*		•	_	ē		5					*	1	1
4. Insanity	18	1	1	1		1	60		1	1	1	İ		1	1
5. Chorea	69	-	1	1	- 1	1		- 1	1	1	1	1	1	i	
6. Epilepsy	o	-	1	1	- ;		1	1 .	1	:	1	1		1	1
7. Tetanus	-	-	-	1	1	1	:		1	1	1	1	-	i	
8. Convulsions	16	-	24	-	н	-	-,	01	-	- 1	:	i	1		:
9. Brain Disease, &c., (e)	141	-	1	4	00	G1	10	9	-	-	20	1	×	į	4
10. Neuralgia	9	-	i	1	-	01	1	-	1	-	-	1	-	į	
Order 2—Organs of Circulation.				-	-			_							
Totals	176	Q1	00	60	_	t+	7	01	į	40	1	1	00	-	9
1. Pericarditis	138	-	1	1	_ ;	1		- 0	1	1	1	Ì	-1	1	
2. Heart Disease, &c., (f)	163	-	90	00	_	1-	*	GN.	1	10	-	1	60	-	•
Order 3—Respiratory Organs.					_										
Totals	816	15	-	9	10	60	10	00	;	Ħ	15	1	10	4	×
1. neumonia	528	13	77	9	10	00	00	9	1	=	Ħ	:	00	80	8
2. Pleurisy	00	1	1	1	- 1	1	-	-	1	1	-	1	1	- 1	
8. Bronchitts	1-	1	1	1	- 1		-		1	i	-	1	1	1	
4. Asthma	6		1	1	- 1		- 1	п	- 1	1	1	i	1	İ	
5. Hydrothorax	<u>8</u>	1	1	-	:	1		,	1	1	1	1	-	1	
6. Throat Diseases.	2	1	1	1	- 1	1	- 1			1	1	T	:	1	
7. Lungs, Diseases of, &c	83	1	-	1	-	Ţ	F	_	1	-	-		ľ	_	8

TABLE IX-CONTINUED.

	-								00	UU	COUNTIES	·						
DISEASES.	.atat2	Allegan.	Alpena,	Antrim.	Barry.	Bay.	Berrien.	Branch.	Calhoun.	Cass,	Charlevoix.	Сћероудап.	Clinton.	Eaton.	Emmet.	Genesee,	Gd. Traverse.	Gratiot,
Onder 4-Digestive Organs.				1														
Totals	816	30	01	7	*	4	14	00	24	Ħ	1	01	16	6	09	24		4
1. Enteritis	85	İ	i	i	İ	1	00	1	00	01	1	- 1	68	H	:	10	1	H
2. Gastritis	4	-	i	1	i	1	-		1	-	1		1	1	i	1	1	-
3. Peritonitis	19	60	i	i	1	-	04		-			1	-	1	1	1	i	1
4. Hernia	10	1	1	1	1	1	-	1	1	- 1	1	-1	1	-	1	Ì	i	1
5. Fistula	F	i	1	1	1	-	1	- 1	1	1	1	1	=	1	1	1	1	-
6. Stomach Diseases, &c.	05	09	i	1	1	-	-	-	1	01	1	1	1	1	1	-	1	-
7. Bowels, Diseases of, &c.	88	i	i	i	1	:		- 1	co	1	-	1	-	1	1	1	1	-
8. Hepatitis.	10	i	1	i	- 1	1	1	-	- 1		1	1	1	1	-	- 1	1	-
9. Jaundice.	18	i	i	1	1	1	1	- 1		1		1	04	1	1	1	1	1
10, Liver Diseases, &c.	4	-	i	i	1	1	*1	-	90	1	1	1	-	09	1	C4	1	
11, Hemorrholds	G4	i	i	1	-	1	1	- 1	1		1		-	1	1		1	
19. Diarrhea	240	14	01		c	-		00	0	*	•					•		

18. Dysentery.	811	9 4 1	*	-	64	2 4 12	1	12	÷		01	9	•	1 18		-	œ.
14. Dyspepsia	12		1	1	1			1	04	1	÷			-	1		
15. Spleen Diseases, &c	01	1				1		1		1	t	1		1	-		1
ORDER 5-Trinary Organs.											_	-	-	_	-		_
Totals	68	1	-	-	1	:	-	4	1	1	-	1	-	-	1	į	
1. Nephritis	6 1	1	- 1	;	;	1	1	i	i	1	+	i	-	:	1	-	
2. Nephria, (Bright's Disease)	80	4	1				1	İ	i	i	1	1	1	1	-	+	į
8. Diabetes	16	1	1	1	1	1	1	+	i	i	1	i	+	+	-	1	
4. Calculus, (Gravel)	20	1	1	1	1	i	i	-	1	İ	1	+	÷	+			
5. Cystitis	61	1	1	-	1	1	1	i	i	i	1	i	1	1	1	1	
6. Kidney Disease, &c	18	-	1		- !	1	н		1	1	1	-	-	:	1		\ i
Orden 6—Generative Organs.					Ŀ								-	-	-	_	-
Totals	*	1	1	1	- 1	1	1	i	i	i	1	7	1	1	1	-	,
1. Ovarian Disease	1	1	-	-	1	1	1	i	i	i	1	-	1	1	-	-	
2. Uterine Disease	8	1		-	-	1	1	i	i	i	1	1	1	1	-	1	- 1
ORDER 7—Organs of Locomotion.											_	-	_		_		
Totals	15	1				1			i	i	i	1	1	i	-	1	,
1. Necrosis.	-	1	1	1	- 1	1	1	i	1	i	i	1	1	1	1	-	1
2. Hip Disease	11	1	- 1	-		1	-	1		i	i	-	_	1	1	1	-,
ORDER 8—Integumentary System.	=	1	1	-		П			T	T		-		-	_	-	
Totals	22	1	!	1	1	Ť	1	1	-		-	-		÷	-	-	- 1
1. Herpes	=======================================	_	_	-					i		_	-;	-		-	-	-

TABLE IX-CONTINUED.

									COUNTIES.	ENO	17								
DISKASES.	.atat2	Allegan.	Alpena,	Antrim.	Barry.	Bay.	Berrien.	Втяпсћ.	Calhoun.	Cass.	Charlevoix.	Сћероуgan.	Chinton.	Enton.	Emmet.	Genesee.	Gd. Traverse.	Gratiot.	Hillsdale.
Orders S—Continued.																			
8. Abscess, (part not stated)	18		1	1	-	- 1	- [_	_		1		-	-	- 1	-			
4. Tumor, (part not stated).	1-		- ;	- 1		1	1	- 1	1	-	1	1	1	+		-	-		
5. Ulcers, (part not stated)	04		- :	1	1	1	1	1	:	1	1	:	1	:		1		-	-
CLASS IV—Developmental Diseases. Order 1—Develop- mental Diseases of Children.																			
Totals	498	10	-	1	-01	18	13	9	16	ю	-	1	100	.01	10	OC	di	-	1-
1. Still-born	46	1	-	1		-	-		4	1	- 1				1	-	1	1	1
2. Premature Birth and Infantile Debillty	876	6	1	-	29	16	18	.0	13	ю	-	1	00	Q3	10		A.	-	
f. Teething.	92	1	1	- 1	-	F	1	1	- 1	1	1	1	1	1	1	1	1	-	- (
Order 2—Developmental Diseases of Women. Totals	92	60	-	-	90	60	- 01	00	10	H			*	-		01			
		- 1		1	-	- 1	1	-		1	7	1	1		- 1				
S. Ohlidbirth (See also Metria)	88	8			100	69	Di	100	4	-	-	-	*	-					

8. Climacteria	GI	+	J		1		1	i	1	:	1	1		1	i	i	i	:
4, Abortion	80	+	1	1	1	1	1		-	- 1	1	1	-	-	1	i	1	1
5. Flooding	69		1	1	1	-1	1	1	1		1	1	1	1	1	:	1	
Order 8—Developmental Diseases of Old People.	-		_															
1. Old Age	525	п	1	-	-	8		10	10		-	62	10	*	4	1	GS.	۳
Onder 4—Diseases of Nutrition.		-	_															
1. Atrophy and Debility	32	1	- 1		1	1	1	1		- 1	1	-	1	1	G5	7	1	-
CLASS V—Vident Deaths. Onden 1—Accidents or Neglingence.																		
Totals	728	9	69	01	_	18	t-	Ξ	00	1	1	64	00	- {	00	90	80	4
1. Fractures and Contusions	-	+	1	1	1	1	1	1		-	1	1	1	1	1	1	1	i
2. Railroad Accidents	15	1	1	1	1	-	i	1	-	- !	1	-	1	- {	-		1	1
8. Burns and Scalds	4	+	1		1	~	1			- 1	1	- 1	01	1	1	į	1	-
4. Poison	11	01	-	-	1	63	1	1	1	1	- 1	1	1	- ;	1	1	1	1
5. Drowning	08	01	1		4	8	-	01		1	-	1	24	- 1	1	1	1	1
6. Suffocation	60	1	1	1	1		1	1	1	1	1	i	1	1	1	-	1	i
7. Gun-Shot Wounds	16	-	1	1	i.	i	i	1	1	1	į	1	1	1	-	i	1	-
8. Other Casualties	154	ļ		1		_	9	00	01	1	1	04	00	1	*	90	1	64
Овркв 2 Homicide	-	-	!	- 1	1	1	1	1	1	1	1	į	-	1	-	:	1	i
Order 8-Suicide	88	1	1	1	;	1	G.	i	1	1	1	1	1	1	-	1	1	
Order 4-Lightning	F	1		1	:			1	1	-	1	1	1	1	1	1	1	1
Causes not Classified (g).	681	15	-	5 15	20	1-	4	25	0.	90	1	14	0	18	6.	1-		10

TABLE IX-CONTINUED.

								٥	ΩO	COUNTIES	82							
DISEASES.	Honghton.	.aotaH	Ingham.	.aiaoI	Iosco.	Isabella.	Jackson.	Kalamazoo.	Kent.	Lapeer. Leelanaw.	Lenawee.	Livingston.	Macomb.	Manistee.	Marquette.	Мавоп.	Mecosta,	Menominee.
CLASS I—Zymotic Diseases. Order 1—Masmatic.				1				1	1			-	-			_		
Totals	1+	11	15	98	1	04	22	53	46	15	-	41	8	35	14 1	10 2	53	9
1. Erysipelas	1	1	+	8	i	1	-	7	9	1	1	00	4	- 1	-	:	1	-
2. Congestive Chills and Ague (a)	1	1	64	80	i	1	-	C9	69	4	+	-	-	-	- 67		00	-
8. Remittent Fever (b)	G4	90	01	64	i	1	4	*	ю		- 1	*		49	1		24	-
4. Typhus Fever (c)	01	4	*	9	i	1	15	œ	21	4		14	69	10	9	04	98	1
5. Carbuncle	1	1	-	-	i	1	i	i	1	-	_		1		1	!	-	-
6. Cholera	-		-	1	i	i	i	1	i	-	_	-	1		- !	1	1	1
7. Cholera Infantum	1	-1	- 1	01	1	1	-	00	+	1	-	1-	_		64	-	-	-
8. Croup	1	1					00	-	04	+	- 1	1		-	69	į	-	-
9. Diphtheria	1	- [H				-	-	09	1		1-		F+	1	1	1	
10. Mumps	1	1	1			•	i	i	i			-	1		1	1	1	
11. Quinsy	1	- :	-		- '-		i	1	1	1		-	-		1	1	1	1
19. Rheumatism	_!	-				_	-	64	01	61	-	61		-	-			-

	18. Scarlatina		1		1			•			1	:	i	00	1	8 8	÷	ī	:
	14. Small Pox	1	1		+	-	. 191	-!	1	1	1	-	69		÷	÷	****	1	;
1	15. Whooping Cough.	-	O.S.	64	00	-	00	Q4	00	04	1	1	-	-	-	80	1	69	;
4	16. Measles	-	1		1		•	1	-	1	1	i	1	-	i	10	1	-	:
	17. Metria.	-	-		1		_,	- 1	-	1	1	1	1	1	1	i	÷	1	;
	18. Spine Diseases, &c. (d)	- 1	-	=	=	1		-		i	1	94	i	1	-	i	1	1	;
	19. Influenza.			- 4	1			- !	:	1	1	1	-	1	1	i	1	1	:
	Order 2—Enthetic.				_							_		-					
	Totals	-	1		1	-		- 1	3	i	-	-	1	1	i	i	1	1	:
	1. Hydrophobis	- 1	1		1		*	1	110	1	1	=	1	1	1	i	1	1	;
	2. Snake Bite.	- 1	1		1	-	-	of.	- 1	1	1	1	1	1	1		-	1	i
	Orden 8—Dietic.				_	-			-						_		-		
	Totals	1	1		-	1	- 1	- 1:	1	1	1	1	1	i	1	- 1	+	1	:
	1. Goitre	1	-		1	-		*	1.	1	İ	i	+	1	i	i	+	1	į
	2. Intemperance				2		- (:	İ	i	1	-	1	1	+	i	1	:
	Order 4—Parasitic.				-							_			-	-	_	_	
	Totals	1	1	-		-	-	-	7	1	1	1	1	-	1	-	1	i	:
	1. Thrush	1	Ì				-	٦	F	i	i	1	-	-	+	÷	t	٠.	:
	2. Worms.	-	-	1		-			2	i		:		1	1	-:	-		:
	CLASS II—Constitutional Diseases. Order 1—Diathetic.		8								T			-	_	-	-		
	Totals	1	1	9	10	OH.	æ	99	t-	8	!	10	*	10	-:	-		60	:
	1. Anæmia and Dropey		1	00	60	Ø4	G-5	64	4	-	-	01	90	1+		-		09	:

TABLE IX-CONTINUED.

								Ď	N D C	COUNTIES	œ.							
DISEASES.	Houghton.	Huron.	.madgaI	.slnoI	losco.	Isabella.	Jackson,	Kalamazoo,	Kent.	Lapeer.	Leelanaw.	Lenawee.	Livingston. Macomb.	Manistee.	Marquette.	Mason,	Mecosta,	Menominec.
CLASS II. ORDER 1—Continued.										-		l I	_	1		_		
2. Cancer	1	1	63	-	-	1	-	9	80	01	1	9	1	90	-	- 1	-	1
8. Noma, (Canker)	- !	-	-	-	1	1	1	1	1	1	1	-	1	-	1	- 1	1	
4. Mortification.	1	- 1	1	T	1	1	1	1	1	-	1	-	-	1	1	-	- 1	
Order 2—Tudercular.										-	-		-	_		-	_	_
Totals	9	4	18	3	90	1	53	86	31	55	00	88	18	90	4	+	90	-
1. Phthisis, (Consumption of Lungs)	10	4	18	50	00	-	16	35	88	=	00	35	138	30	4	00	90	1
2. Scrofula.	-	1	1	1	Ì	1	-	1	1	-	1	04	1	-	+	- 1	-	-
3. Hydrocephalus	-	1	1	01	1	1	-	-	63	+	- 1	1	1	- !	-:	1	-	-
4. Hæmoptysis	-	1	:	1	1	Ì	1	1	1	!	-	:	1		-	-	1	-
CLASS III—Local Diseases. Order 1—Nervous System.											_	-	_	-		-	_	_
Totals.	19	00	-	6	-	90	15	15	19	6	-	11	00	10	9		09	1
1. Cephalitis.	1	-	01	Ø	1	01	00	ž-	1-	4	-	9	8	7	80	1	1	-
2. Apoplexy.	-	1	-		-			4	H	-		-	-	-	-	-	_	_
																•	1	_

	100							Ŧ			ē	Ē.	Ē	÷	Ė	9	
4. Insanity	1	10	1	-	-	100	1	- 5	1	-		Q9			+	1	:
5. Chorea	ı			-	1		1		i					-	1	1	į
6. Epilepsy	1	- !	1	-	-				1	1	. 1			1	1	1	į
7. Tetanus	1			-	-	- 1	1	,	-	1			- 1		1	1	;
8. Convulsions	6.	,	1	1	-		80	-	1	7	- 4	-		- 1	1	-	ł
9. Brain Disease, &c., (e)	29	4	67	-	01	-	9	GS.	1	80	Q1	02	00	1	Ĥ	,	į
10. Neuralgia	1	- 1	:	:	-		,	- X	1	1	-	,	- 1	1	+		:
ORDER 2—Organs of Circulation.				_										_	-		
Totala	1	91	65	-	6	1-	00	09	1	11	21	AQ.	1	г	-	-	;
1. Pericarditis	:	.1.		:	1	- 10	1	,	i	1	,	-	-1	-	1	- 3	;
2. Heart Disease, &c. (f)	1	93	91	1	6	14	1-	Q4	1	10	01	10	-	1	-		;
Orden 3—Respiratory Organs.		_	_	-	_						-			-	_		
Totals	-	- 9	10	1	6	14	15	29	-	17	9	00	1.1	Q1		-30	;
1. Pneumonia.	न	10	00	-	6	12	6	-	*	=	10	80		QI	-	. 7	;
2. Pleurisy	1	1	1	1	1		:		1	1				+	+	729	:
8. Bronchitis	1	1	1	:	1		:	4	1	,	-		- 1	7	-	13	:
4. Asthma	1	1	1	-	i	- 4	-		Î	i	- 1	-	-	1	-	T.	;
5. Hydrothorax	1	1	1	1	1				-	1		11		- 1	1	1.	:
6. Throat Diseases	i		1	+	-	-	4	*	1	-	-			-:	+	15	;
7. Lungs, Diseases of, &c	1	-	63	_		_	63			Q1	-	-	-	_!	-		;

TABLE IX-CONTINUED.

								CO	N D	COUNTIES	œ.							
DISKASES.	Honghton.	Haron.	Ingham.	.alaoI	losco.	Isabella.	Jackson.	Kalamazoo.	Kent,	Lapeer.	Leelanaw.	Lenawee.	Livingston. Macomb.	Manistee		Marquette.	Mecosta.	Menominee,
Onden 4—Digestive Organs.										1	1	-	<u> </u>	1	1			1
Totals		8	11	19	1	6	15	83	42	14	13	55	18	6	16	Ç1	10	O.
1. Enteritis	1	-	1	24		1	-	7	10	7		п	00	-	04	-	1	1
2. Gastritis		1	1	1	1	1	i	1	00	-	1.0	1	1		+	1	- 1	1
8. Peritonitis		-	89	1	1	1	1	T	i	1	100	-	- 1	+	-	÷	-	4
4. Hernia	1	1	1	-	i	1	04		-		1		1	1		1	1	
5. Fistula	-	1	1	1	i	1	1	i	i	1	1		1	-	_	-	1	
6. Stomach Diseases, &c	1	-	1	-	1	1	-	1	+	-	1			-	1	1	-	
7. Bowels, Direases of, &c	1	1	-	1	1	1	1	60	-	i	1	1	- (1:	1	+	1	
8. Hepatitis	_		1	1	1	1	1	01	i	i	1		1	-	-	1	1	-
9. Jaundice	1	1	1	-	1	-	-	i	i	i	1		- 1	-	_	-	-	**
10. Liver Diseases, &c	1	1	64	64	1	1	-	04	00	÷	1		00	-	i	1	1	
11. Hemorrholds	-	-	1	-	i	1	:	-	1	i	1			1	+	+	1	
13. Diarrhosa		20	91	-	-	1	54	4	7	~	4		4	4	00	-	-	

DEATHS. 109

18. Dysentery	60	80	13	œ	14	8	16	9	6	17 8	=	-	9	80
14. Dyspepsis.	*	- 0.	:		:	*	77	-	:	-	1	1		:
ts. Spleen Diseases, &c.			1	:	1	-	i	1			1	-	-	1
Order 5-Urinary Organs.	T .								-	_		-	_	
Totals	1	4	-	1	*		90	-		- 1		!	-	-
1. Nephritis	1	- 1	:	1	1	,	i	-	_	1	1	1	- 1	1
2. Nephria, (Bright's Disease)		1	1	1	10		1	-		1	1	1	-	
8. Diabetes	:	-	1	1	1	- 1	03	1		-:	-	!	-	
4. Calculus, (Gravel)	1	- 6	- 1	1	01	11	1	-	_	- 1	i	1	-	
5. Cystitis	1	•	1		- 1	•	1	-	_	:	1	- 1	- 1	1
6. Kidney Diseases, &c.		00	1	- 1	64	-	+	-	_	. ;	1	-	1	
Orden 6—Generative Organs.			_				-	-		-		_	_	
Totals	1		:	- 1	1	- >	+	1		:	-	- !	- 1	
1. Ovarlan Discases.	d		1	Ti f	1		1	-		- 1	 1	- 1		- 1
2. Uterine Diseases.			:	1	-2		-	-	- 1		1	1	1	-1
ORDER 7—Organs of Locomotion.								_					_	_
Totals	1	-	- 1	T	:	61	-	-	- 6		 -	;	1	- 1
1. Necrosis.	:	1	:	:	- 1	C	-		:		-	-	-	1
2. Hip Disease	i		1	- 1	:	QI	1	-			1	!		
Order 8—Integumentary System.							-	-	-			_	-	_
Totals		- 1	1	4	н	61	94	1	:		i		1	- 1
1. Herpes	***	- 5	13	10	1			-					- ;	- 1

TABLE IX-CONTINUED.

Houghton. Huron. Huron. Ingham.									ວັ	NDC	COUNTIES	20							
evelop. 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DISEASES.	Houghton.	нотиН.	.шейзаІ.	Ionia.	losco.	Isabella.		B A B A A	-				Livingston. Macomb.	Manistee,	Marquette.	Mason.	Mecosta.	Menominee.
evelop-	ORDER 8—Continued.					İ	İ		1		П	1	1	1	1			1	
6 6 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2. Leprosy	- :	-	-		1	1	1	•	1		- :	+	-	- 1	4	i	- 1	- 1
-Develop- 1 1 2 2 2 1 11 22 5 4 4 6 6 1 1 2 1 2 1 8 18 5 4 4 6 6 6 1 2 2 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8. Abscess, (part not stated)	_		1		_	_		F	H	-	- 1	_	-	-		1	-	
—Develop- 1	4. Tumor, (part not stated)	- 1	1	1		_	1	H	н	-	- 1		- 1	-1:	1	. ,	1	-	1
— Devotop. 9 6 7 1 12 2 2 4 1 11 22 5 4 4 4 6 6 1 1 2 1 2 1 8 18 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5. Ulcers, (part not stated)	1	- 1			-	1		- 7	- :		- 1	- 1	- 1	1			i	
men. 4 4 6 6 7 9 9 1 11 22 5 4 4 4 6 6 6 1 1 2 2 1 2 1 8 18 8 5 4 4 4 6 6 6 1 1 2 2 1 8 18 5 4 4 4 6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1	CLASS IV—Developmental Diseases. Order 1—Develop mental Diseases of Children.					1,60			-	_		-	_		_				
mem.					-	63	Q1		11	55	×o		14	70	13		13	4	- 69
men. 4 6 6 1 2 1 8 13 5 4	1. Still-born	1	- 1	1	63	1	i		н	00	:	1	+	1	- 1		01	÷	÷
men.	2. Premature Birth and Infantile Debility	4	9			г	01	1	00	18	ĸ	*	14	70	11	-		4	63
men.	8. Teething	4					-		Q3						69		10	-	-
8	Onder 2—Developmental Diseases of Women.				-7										_	-	_	_	_
1	Totals	*					1	64	10		-		9	1	-	-	-	1	1
	1. Paramenia	1	- 1				i	-	-10				1.6	1	+	-	1	+	
4	2. Childbirth, (See also Metria)	7	_					01	13				9	1	-	7		_	_

8. Climacteria.	1	!	T	I	67	1	:	1	1		1	÷					i
4. Abortion	;	-	1	1	1.0	1	:	-1	:	*	:	i	1	1	1	- 1	:
5. Flooding.	1	1	J	1	- 4	:		1		1		i	1	1			i
ORDER &—Developmental Diseases of Old Prople.	_											_	_				
1. Old Age	1		01 9	1	F 1	11	18	16	80	7	6	4	55	-	1	4	:
ORDER 4—Diseases of Nutrition.	-											_	_				
1. Atrophy and Debility	1	-	-	l	- 6	GR.	1	;	-			1	_	1	1	-	i
CLASS V—Fiolent Deaths. Orden 1—Accidents or Negli-gence.	-																
Totals	18	4	9	I		9	12	=	9	3	14	69	10	10	64	00	-
1. Fractures and Contusions	1	1	1	1	104	1	1	:						1	1	= 9:	:
2. Railroad Accidents	-	-	- 1	i	1	:	П	:	7.		-		-	-	1	•	i
8. Burns and Scalds	:	64	63	-	196		00	-	1		-		_	-			i
4. Poison	1	-	-	1		1	- ;	3			61	÷		-	1	- 10	i
5. Drowning	10	-	11	1	1	1	04	-	80		-		69	-	1	-	:
6. Suffocation	-	-	15	1	0.	;	;	1.4			- 3		:	1	1	- 1	i
7. Gun-Shot Wounds	1	1	-	-	1.35	- 1.	-	00	1.1		-	_	69	1	i	*	1
8. Other Casualties	œ	**	04	1		4	70	9	G9	63	0		20	9	64	.04	-
Orden 2—Homicide	-	-	. (1	. *	1	1	1	-0		1	- ;	- 1	1	i	-	;
Order 8—Suicide	1	1	1L	1	- 1	es	-	1	. 1		04	- ;	1	-	1		i
Orders 4—Lightning	+	1		1		- ;	1	1			-	_				Ξ.	
Causes not Classified, (g)	18	9	8	80	61	16	13	18	t-	4	12	61	18	=	•	•	••

DEATHS.

TABLE IX-CONTINUED.

								ŏ	NDC	COUNTIES	σΩ OΩ							
DISKASES.	Midland.	Monroe.	Montcalm.	Muskegon.	Мемауко.	Oakland.	Осеапа,	ontonagon,	Ottawa.	Saginaw.	Shiawaseee.	St. Clair,	St. Joseph.	Tuscola,	Van Buren.	Washtenaw.	Wayne.	Wexford,
CLASS I—Zymotic Diseases. Order 1—Masmatic.					,	1 8												
Totals	1	11	12	4	18	2	24		18	#	3	\$ # \$ #	35	18	31	83	210	1
1. Erysipelas	1	69	1	i	1	F	;	- 1	i	:	-	#	01	1	60	1	Q9	- (
2. Congestive Chills and Ague, (a)	1	4	1	10	1	69	1		10	-		9	1	1	-	-	9	1
8. Remittent Fever, (b)	1	00		10	00	00	1		-1	4	=	10	-	9	44		86	
4. Typhus Fever, (c)	- 1	10	00	15	*	6	1	÷	Q1	6	- 1	1-		70	15	12	88	1
5. Carbuncle	-	1	i	1	1	i	1	- 1	÷	1.	. 1		1	1			1	1
6. Cholera		İ	İ	1	1	i	1	•	÷				1	1	- }		- 1	_{1
7. Cholers Infantum	1	1	+	1	i	i	1		н	00		04	_	1	G4		24	i
8. Croup	1	1	64	00	1	1	1		10	18	F		00	-	-		10	i
9. Diphtherig	1	-	Ť	1	:	09	1		1-			-	10	-	64	. 7	10	1
10. Mumps	1	i	İ	1	1	i	1	-)	,	4			4	1	1	- 1	1	1
11. Quinsy	1	i	1	1	-	i	i	9.	+	÷	-	÷		***	:	i	-	
12. Rheamatism	Į	İ	-		1	1	=	-	_	-	_	_	_				_	

s, Climacteria		Ī	T		-		i	1		1	-	1_			_			
4, Abortion	-	1	=	i	1	1	1	i		-	÷		1	1	1	1	i	1
6. Flooding	i	1	i	i			1	1	1	1	-	1	1	1	1	1	i	1
Onden 3-Developmental Diseases of Old People.		-			_	_	-	-	-	_	_	_	_					
1. Old Age.	i	1	9	10	-		Ħ	18	16	00	4	6	12	-			4	_
Order 4—Diseases of Nutrition.				-	-	_	-		_	_	_							
1. Atrophy and Debility	1	i	-	-	1	- 1	Q4	-	+	1	-	-	1	1	1	1	1	i
CLASS V-Fiolent Deaths. ORDER 1-Accidents or Negligences.								_										
Totals	18	*	10	9	1	:	9	129	=	9	60	14	2 10	4	10	01	80	_
1. Fractures and Contusions	-	1	1	1	-		i	1	-	- 1	-	1	-	1	1	-		- 1
2. Raliroad Accidents	1	i	-	1	-		1	-	- 1	1		1		1		- 1	1	
8. Burns and Scalds.	-	01	1	G9	-		1	00	-	1		+	01	1	-			- 1
4. Polson	j	E	-	-	1	-1	-	1	+	- !	-	01	1	1	-	1	:	1
5. Drowning	10	-	1	1	-	-	-	09	-	90	1	1		01	01	1	-	1
6. Suffocation.	i	-	-	-	-		1	1		1	1	1	1	1	1	1	1	1
7. Gun-Shot Wounds	1	1	1	1	-	1	1	-	90	1	1	1		09	1	1	1	i
8. Other Casualties	00	-	04	09	1	-	*	10	9	C3	93	6		10	01	6	01	
Onder 2-Homicide	İ	1	1	i	+	1	1	1		-		1	1	1	1	i	-	1
Order 3-Suicide.	i	1	i	1	-	- 1	00	-	-	1		01		1	1	1		1
Овржя 4—Lightning.	i	-	1	1	+	÷	1	-	+	1	-	1	_!	-	1	1		
Canses not Classified. (a)	18	4	6	30	60	C4	16	13	18	-	*	12	2 13	:	11	00	60	s

TABLE IX-CONTINUED.

								ŏ	UL	COUNTIES.	or.							
DISEASES.	Midland.	моптое.	Montealm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	Ottawa.	Saginaw.	Sanilac.	Shiawassee.	St. Clair.	St. Joseph. Tuscola.		Van Buren.	Washtenaw.	Wayne. Wexford.
CLASS II. ORDER I—Continued.							1	1	1		1	1	-		-	_	1	-
2. Cancer	1	90	1	90	1	10	1	1	90	24		90	90	1	-	21	01	14
3. Noma, (Canker)	- !	- !	-	-	i	1	1	1	1	-	-	-	-	1	-	-	1	01
4. Mortification		П	- 1		1	1	i	i	-	1	4	1	1	1	- 1	1	- 1	न
Order 2—Twercular.												-			_	_	-	-
Totals	69	20	1-	15	00	85	10	60	16	98	9	18	54	55	15	- 67	25 1	148
1. Phthisis, (Consumption of Lungs)	63	8	1-	13	00	35	9	90	17	21	9	18	50	18	11	88	21 1	128
2. Scrofula	1	-	1	-	i	1	-	1	-	-	:	-	61	-	-	7	01	-
8. Hydrocephalus	1	:	-	-	i	i	i	1	-	1-	1	-	91	80	-	-	31	23
4. Hæmoptysis	1	- 1	1	i	1	1	-	i	1	1	- 1	- 1	- 1	:	- :	-	:	09
CLASS III—Local Diseases. Order 1—Nervous System.	- 6										-	-	_	-	_	-	-	-
Totals		15	00	18	00	77	20	-	12	13	10	9	11	15	10	15	20 1	132
1. Cephalitis.	1	9	90	t-	24	1-	-	1	00	11	00	00	1-	OI	60	6	90	87
8, Apoplexy	_!					-		-			-	=	=	G#	-:	=	6	1-

18. Scarlstins	1	-	:	1					1		-	*	0	!		:	-
14. Small Pox.		_		-		1			03	÷	i		_	:			90
15. Whooping Cough	-		60	61	10	1	1	77	*		4+	-	00	01	10	-	15
16. Measles	-		_		-	- !	- 1	9	-	•	1	9	01			н	45
17. Metria	1		-	_		1		- 3			i	1	-	_ 1			01
От 18. Spine Diseases, &с., (d)	-					. !	i	Q1	03	9	-	Q1	04	_	Q1	- 1	01
	-					-	1				1	- 1			- 1		, et
Orden 2—Enthetic.								i .				7,75			_	_	-
Totals	-		,			1	1		- 1		1	- 1			-	7	1
1. Hydrophobia	i		-			-	1			,	1	-		_ ,			1
2. Snake Bite.	1	- 12				j	1	-	Ex		1						9 10
Order 8—Dietic.												-					
Totals	1	_	- :	1		1	-				-	- 1					*
1. Goltre	i					1				,	i	1				C 24	- 1
2. Intemperance	1		-:			1	i		*	-	i		-				4
Order 4-Parasitic.														_	-		-
Totals		·	01			1		61	60		1	1	-		- 57	CN.	90
1. Thrush	1		-	109		1			90	,	1	!	-		- 11	03	*
2. Worms.	i		-			1	1	63			1	1		-	10.8		4
CLASS II—Constitutional Diseases. Order 1—Diathetic.											-						
Totals	-		63		15	-01		4	00		10	00	10	1	9	90	90
1 Anomie and Droner	÷	0	-		1-	01		-	*2		0	*	4		.00	-	86

TABLE IX-CONTINUED.

								၁	OUN	COUNTIES	82							
DISEASES.	Midland.	Моптое.	Montealm.	Muskegon.	Newaygo.	Oakland.	Oceana.	Ontonagon.	, RWB11O	Saginaw.	Sanilac.	Shiawasaec.	St. Clair.	St. Joseph.	Tuecola.	Van Buren.	Washtenaw.	Мауве.
CLASS II. ORDER I-Continued.		1	İ		1		Ì	į.			1	1	-	1	1	1	1	1
2. Cancer		80	0	90	1	10	1	- 7	90	01	:	90	90	:	i	24	91	14
8. Noma, (Canker)			-	.)	-	1	1	=ì	-	-	-	:	-	-	-	7	1	91
4. Mortification		-	-		1	1	1	= 1		1	1	1	-	-	1	-	1	-
Order 2—Tubercular.					1													
Totals	23	50	۲	15	00	85	1-	- 00	19	88	9	18	55	04 64	61	54	55	148
1. Phthisis, (Consumption of Lungs)	Ġ1	30	1-	00	00	85	•	90	-	25	9	18	05	18	=	88	5	128
2. Scrofula		- 1	-	Ħ	i	1	H	. 9.	-	1	;	1	09	-	=	1	01	#
3. Hydrocephalus		-:	1	П	1	1	-	-4	7	1-	:	:	21	20	1	-	29	87
4. Hæmoptysis	_	1	-		-	Ť	-	•	-	1	1	1		1	1	-	1	74
CLASS III—Local Diseases. Order 1—Nervous System.													-		-		-	
Totals	_	15	90	18	00	16	80	-	27	150	10	9	**	12	10	12	50	253
1. Coppallia	-	9	80	t-	04	1-	-		00	11	00	00	h	24	80	6	00	150
2. Apoplexy	Ĭ	1	Ī			7	1	:	1			-	-	6		-	6	-

4.10 A/J 2/J 2/J 2/J 2/J 2/J 2/J 2/J 2/J 2/J 2																	
15. Spleen Diseases, &c	1	i	1	1	1	1	1	- 1	1	- (- [1	-		1	i
Order 5—Urinary Organs.																	
Totals	1	-	1	-	1	01	-		1	_		21	1	-	80	-	i
1. Nephritis	i	- 1	-	1	1	1	1	1	-	- 1	1	-6		-		1	i
2. Nephria, (Bright's Disease)	:	1	1	1	1	1	1	-	1	i	i		1		04	1	į
8. Diabetes.	-	1	-	1	-	1	7					-	1	T		1	;
4. Calculus, (Gravel)	***	1	1	-	1	1	1	- 1	-	-			i	1		1	į
5. Cystitis	1	i	- 1	1	- 1	-	-		+	1	i	- 6	-	1		1	:
8. Kidney Diseases, &c	1	1		1	1	H	1			- 4	- 1			- 1	-	1	į
Orden 6—Generative Organs.																	
Totals	1	1	1	1	1	- 1	1			1	-	-1-	1	1	П	1	i
I. Ovarian Diseases	1	1	1	1	1	1	1	-	1		I	- 6	1	1	II. F.	1	:
2. Uterine Diseases	1	- }	- }	1	1	1	-		1	- (1		-	1	-	-	į
Order 7—Organs of Locomotion.																	
Total.	1	1	1	1	1	1	:		1	1	1	-	-	1	-	00	i
I. Necrosis	1		1	-	1	1	i	1	1	,				1	P.	1	į
2. Hip Disease	1	1	1	1	T	1	1	Ť	1	. 1		÷	1	1		00	:
Obder 8—Integumentary System.			-			•				,							
Totals	-	-	-	-	I	H	****		1	-	<u>:</u>	<u>:</u>	1	1	-	10	į
Нетов	3	:	-	-		-		-		3	_	_		-			

TABLE IX-CONTINUED.

								00	UN	COUNTIES.	œ.							
DISEASES.	.buslbiM	моптое.	Montealm.	Muskegon.	Newaygo.	Oskland.	Осевпа.	Ontonagon.	.swatto	Saginaw.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw	Маупе,	Wexford.
Order 8—Continued.			Ī	1								-	1		-			1
2. Leprosy	ł	1	Ì	- 1	-	1	i	1	1	1	1	-	1	1	1		1	
8. Abscess, (part not stated)	i	-	7			1	-	1	1	-	- :	-	- 1	1			00	00
4. Tumor, (part not stated)	3	1	1	÷	Ĭ	1	-	1	- 1	*	+	1	4	1	1		-	
5. Ulcers, (part not stated)	i	1	ı į	-		1	1	-	1	-	+	-	14	-	1		24	01
CLASS IV—Developmental Diseases. ORDER 1—Developmental Diseases of Children.							-				-			_				
Totals	67	0	91	m.	90	10	10	-	10	27	-	9	11	00	*	30	8 148	
1. Still-born	i	-	1	140	i	1	1	1	-	1	1	G8	24	-		_	118	-
2. Premature Birth and Infantile Debility	91	œ	03	00	91	10	10	-	6	50	1	+	15	03	*	-	77	
8. Teething.	1	1	1	14	+	1	1	1	н	1-	1	1	- 1	1		_	48	
Order 2—Developmental Diseases of Women.						_		_		_	-	_	_		_			
Totals	:	-	1	01	1	+	24	1	*	#	1	90	00	- 03	-	00		00
1. Paramenia		1	1	1	1	:	1	1	1	1	+	1	1	1	+		1	1
8. Childbirth (See also Metria)		-	1	01	1	60	-		00	8	7	*	00	0	1			8

a, Ciliabeteria.										-	_	_						
4. Abortion	1	1	-	1	-	1	1		1	1	1	1	į	1	-	1	1	i
5. Flooding	1	1	-	1	1	1	1	-	1	:	-	-	-	1	-		1	- 1
ORDER S-Developmental Diseases of Old People.		-	-		-	-	-	_	-	_		_						
1. Old Age.	1	90	-	-	1	1-	1		01	9	24	-01	6	00	21	_	17 6	1
Orden 4-Diseases of Nutrition.			-				-	_							_			
1. Atrophy and Debility	-	÷	1	28	-	-	1		Q1	91	-	_	1	- 1	-	_	-	00
Class V-Violent Deaths. Order 1-Accidents or Negli-										_								
Totals	1	œ	00	10	13	-	-01	21	9	9	*	20	14	11	-	10 11	4	i
1. Fractures and Contusions	i	:	1	1	:	-	;	-		3	1	- 1	-	1	1	- 1	1	
2. Rallroad Accidents.	1	-	1	1	;	1	1	-	1	1		1	-	1	1	OI.	10	i
8. Burns and Scalds	1	-	i	1	1	04		-	00	1		01		01	_	1	01	i
4. Poison	1		1	-	1	1	-	1	1	:	1	-1	-	1	1	- 1	0.5	1
5. Drowning	1	-	1	Ç1	1	1	-	-	60	-1	-		9	9		3	18	i
6. Suffocation.	1	-	-	1	1	1	-1	1	1	1	-	-	-	1	1	1	-	- 1
7. Gun-Shot Wounds	1	1	-	-	1	1	1	- 1	7		1	_	_	1	1	1	i	
8. Other Casualties.	1	01	(0)	01	00	-	-			90		_	9	80	-	8		16
Order 2—Homicide	-	1	-	÷	7	-	1	-	1		1		1	i	1	1	91	1
Order 3-Suicide	i	1	-	-	1	1	-	1		5	i			1	1	1	80	
Order 4-Lightning	-	1	1	-	-	-	1		-	-	1	1	1	1		****	1	i
Causes not Classified, (9).	_	11	00	56	80	18	6	2	17	52	7 10		85 16	00	6	25	112	

or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: Provided, That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city, as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them respectively, by the common council, and shall receive such compensation for their services, not exceeding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

SEC. 2. Every justice of the peace, minister of the Gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him; and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the Gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter, deliver to the clerk of the county in which such marriage took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.

SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes The births, marriages and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child, (if it have any,) the sex and color of the child, the place of birth, the christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: Provided, That in case the child has no christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such christian name shall be distinctly designated in such report as the christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose christian names have not been previously reported in their respective towns, cities or The record of marriages shall state, in separate columns, the date and place of marriage, the christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage, and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death,

the christian and surname of the deceased, the sex and color, whether married or single, the age in years, months and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records in his office, of all the births, marriages and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

Sec. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State, and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by

any regularly authorized medical society in this State for that purpose, he shall prepare such tabular statements, results and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time direct.

SEC. 6. Every justice of the peace, minister of the Gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

SEC. 7. Every physician, surgeon, or midwife who shall have been in attendance upon any deceased person, shall, upon application of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor, a certified statement, without fee, containing the name of the disease, or cause (if known) producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less

than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained), from the heads of families, the keepers, overseers or superintendents of asylums, hospitals, jails, prisons, work-houses, almshouses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail-vessels navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer), in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and, if any person, after being duly subpænaed (as provided for compelling the attendance of witnesses in justices' courts), by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who, after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them, or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the people of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessors of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and upon conviction, punished as therein provided for.

SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 2. That there shall be added to said act a new section, to stand as section eleven, to read as follows:

SEC. 11. The several supervisors and assessors of the town-ships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixty-eight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding section. And such county clerks as have made returns of the births, marriages and deaths to the

Secretary of State for the year eighteen hundred and sixty eight, and who have not received compensation therefor, shabe paid for the same at the rates set forth in the precedir sections.

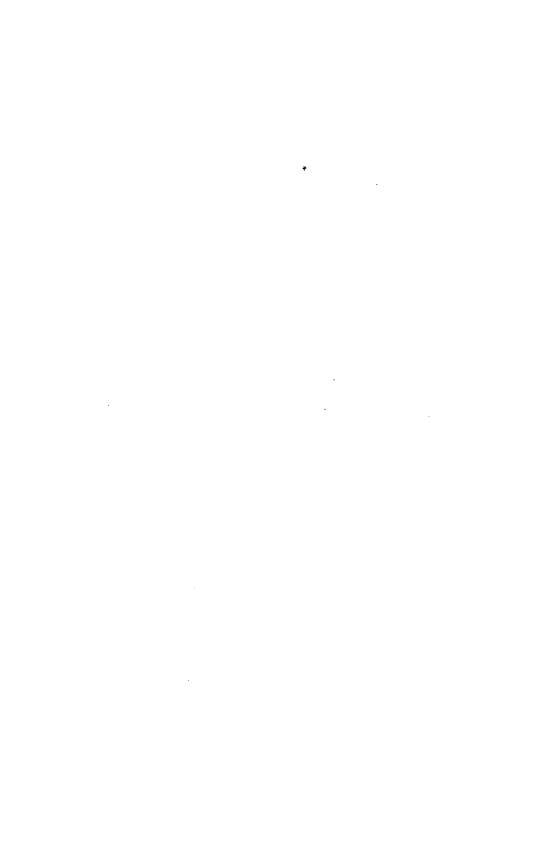
SEC. 3. This act shall take immediate effect.

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THIRD ANNUAL REPORT

OF THE

SECRETARY OF STATE

OF THE

STATE OF MICHIGAN,

RELATING TO THE REGISTRY AND RETURN OF

IRTHS, MARRIAGES, AND DEATHS,

FOR THE YEAR 1869.



BY AUTHORITY.

LANSING: W. S. GEORGE & CO., PRINTERS TO THE STATE. 1870.

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PREFACE.

STATE DEPARTMENT, MICHIGAN.

Secretary's Office, Lansing, December 15, 1870.

To His Excellency HENRY P. BALDWIN,

Governor of Michigan:

Sir:—I have the honor herewith to submit my Third Annual Report of Births, Marriages, and Deaths, being for the year 1869.

The returns to this Department should have been received by September 1st, but in some instances. County Clerks neglected making their returns until November, thus delaying the preparation of important tables.

There is, however, a marked improvement in this regard over former years, and it is probable there will be little cause for complaints of this kind in the future.

Complaints are frequent that marriages have been solemnized of which no returns have been made.

For obvious reasons, there should be record proof in the proper offices, of every marriage; and great pains have been taken by this Department to urge and facilitate the making of these returns.

Copies of the law, and the necessary blank returns have been placed in the hands of every Clergyman and Justice of the Peace in the State, and there is no excuse for this disregard of the law.

Delinquents, when known, have been reported to the proper officers for prosecution, but this course furnishes no adequate remedy for the evil. Whether the present law is the best that can be devised, or a marriage license law is preferable, is a question worthy of consideration.

In the preparation of a part of this Report, the services of a physician of recognized ability and standing in the profession are not only desirable, but almost indispensable.

The law should provide an adequate compensation for these services.

This part of the present report has been in charge of Dr. H. B. Baker, a member of the State Medical Society, to whom I take pleasure in acknowledging my obligation, and to whom is due whatever of merit it may contain. Possessing a rare fitness and ability for the work, he has devoted to it much time and labor.

In submitting the results of his labors, it is hoped they may possess the value anticipated, and meet the commendation of his professional brethren.

Very respectfully,
O. L. SPAULDING,
Secretary of State.

THIRD REGISTRATION REPORT.

FOR THE YEAR 1869.

The present report contains statistics for the entire year eighteen hundred and sixty-nine, in conformity with the amendments to the law requiring the registration and return of births, marriages, and deaths, passed at the last regular session of the Legislature.

This report is, in many respects, more perfect than the preceding ones, the returns to this department generally evincing greater care on the part of those whose duty it is to compile them. It is not surprising that some errors should be made in the returns, on account of the frequent transcriptions made before reaching this office. Such mistakes are corrected as far as is possible by correspondence, and by personal visits to the offices of County Clerks.

The statistics contained in this Report, being for an entire year, furnish a basis of comparison for future years. No attempt at general comparison has been made this year with the tables of the two previous reports, for the reason that the first contained many errors, incident to the introduction of a new law of this character, and the second was compiled from returns embracing statistics for only a fractional part of a year.

:

Below are given the births, marriages, and deaths, as contained in the first, second, and this report:

First	REPOR	r.	Seco	ND REPO	RT.	THIR	D REPO	BT.	
April 5th	, 1867, to h, 1868.	April		h, 1868, t lst, 1868.	o Dec.		t, 1869, to st, 1869.	o Dec.	
Births.	Mar.	Deaths.	Births.	Mar.	Deaths.	Births.	Mar.	Death	8.
19,544	5,708	6,250	19,171	5,485	6,826	27,098	8,459	9,1	45

Comparing the number of births, marriages, and deaths, \implies returned for the last nine months of the years 1867, 1868, ar \implies d 1869, we have the following:

BIRTHS.

YEAR.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.	Unk'n.	Tota 1.
1867	1,578	1,872	1,885	1,542	1,704	1,641	1,661	1,502	1,554	81	14,015>
1868	1,607	2,087	1,944	2,163	2,899	2,862	2,246	2,099	2,288	81	19,171
1869	2,042	2,221	2,085	2,466	2,781	2,682	2,508	2,861	2,512	49	21,65

MARRIAGES.

YEAR.	April.	Мау.	June.	July.	August.	Sept.	October.	Nov.	Dec.	Unk'n.	Total -
1867	181	189	157	824	867	605	864	. 752	878	14	4,8 26
1868	569	611	487	685	583	718	788	662	524	8	5,4-8
1869	716	758	623	750	629	775	775	686	568	17	6,229

DEATHS.

			· ··· -								
Total.	Unk'n.	Dec.	Nov.	October.	Sept.	August.	July.	June.	May.	April.	YEAR.
4, 407	76	518	485	555	627	512	878	846	888	532	1867
6,824	88	666	602	776	1,041	988	747	482	503	486	1868
7,887	48	886	686	874	1,194	1,068	687	-630	652	712	1869

į

By the fore and the seen that the returns for 1869, as compared with a months in 1867 and 1868, are largely increased. This is accounted for in part by the natural increase in population; but it also indicates more care and accuracy on the part of those who collect the statistics.

The whole number of names returned by the several County Clerks, as registered for the period from January 1st to December 31st, 1869, inclusive, was fifty-three thousand one hundred and fifty-six (53,156), viz:

1

Twenty-seven thousand and ninety-three (27,093) children were born, of which thirteen thousand five hundred and seventy-two (13,572) were males, twelve thousand four hundred and eighty-eight (12,488) were females, and sixty-four (64) sex not given.

Sixteen thousand nine hundred and eighteen (16,918) persons, or eight thousand four hundred and fifty-nine (8,459) couples were married.

The whole number of deaths returned was nine thousand one hundred and forty-five (9,145).

The excess of births over deaths was 17.948.

DELINQUENT.

No returns have been received from the counties of Chippewa, Delta, Keweenaw, Mackinac, and Manitou, nor from the townships of Sheridan and White Rock, in the county of Huron. The county of Delta is represented in the Second Annual Report, containing statistics from April 5th to December 31st, 1868, inclusive; but, with this exception, the officials of the five counties first mentioned have failed, through negligence or otherwise, to comply with the law requiring the return of births, marriages, and deaths. The necessary blank forms for the collection of the statistics were furnished the Clerks of said counties, and their attention has been repeatedly called to the importance of making the returns. The delinquents were reported to the Prosecuting Attorneys of their respective counties, with a request to proceed against them,

but as yet no satisfactory results have been attained in this direction. These counties are far removed from direct communication, and are composed, in part, of islands in the lakes. As far as any official information is concerned, it is impossible to say whether or not people are born, given in marriage, or die, in these localities. It is gratifying to know that the number of counties, townships, and wards reported delinquent this year, is considerably less than in the two previous reports.

POPULATION.

We are indebted to United States Marshals J. R. Bennet and James Henry for the official figures showing the population of this State, by counties, for 1870, from which the various tables of percentage contained in this report have been made. The population of the unorganized counties of Kalkasca, Lake, Missaukee, Ogemaw, Oscoda, and Presque Isle, was added to that of the organized counties to which they are attached, and from which the returns of births, marriages and deaths, in said unorganized counties, were received.

The aggregate population of Michigan, as received from the above sources, is 1,190,137.

The proportion of marriages to total population is about 1 to 140.

The proportion of deaths to births is nearly 1 to 3.

The proportion of male deaths to male births is 1 to 2.93.

The proportion of female deaths to female births is 1 to 3.

The proportion of unknown deaths to unknown births is 1 to 1.48.

The above proportions have been worked out from the following table:

diam'r.

TABLE.

Exhibiting, by Counties and State, the Population of 1870, and the number of Marriages, Births, and Deaths which were registered and returned during the year 1869; also, by Sex, the Excess of Births over Deaths, and Deaths over Births.

				BIRTHS.	<u>52</u>		Г	DEATHS.	<u>zi</u>		Ä	Excess of Births	====	Excess of Deaths	Excess of Deaths	١.
SHENIO		. 100 400 10 100 10	ber.		SEX.		ber.		SEX.		over	over Deaths.	!	over Births.	ŧ	en i
	Population.	.ao guirra M	W.pole Num	Male.	Female.	Unk'wn.	Whole Num	Male.	Female.	Cak'wn.	Male.	Female,	Unk'wn.	Male. Female.		Cnk'wn.
Alcona	160	20	7	1	65	:	-	1		:	:	, ,		<u>.</u>	<u>.</u>	:
Allegan	82,151	560	869	888	908	4	505	105	26	61	584	202	63	<u>:</u> :	<u>:</u> :	;
Alpena	8,111	42	3	\$	3	:	8	71	16	:	8	98	===	<u>:</u> :	<u>:</u>	÷
Antrim	2,409	7	28	#	83	:	10	9	4	;	38		:	<u>·</u> :	<u>:</u> ;	i
Barry	020'83	140	243	292	230	;	35	8	F	:	210	170		<u>:</u> :	- <u>-</u> -	į
Bay	15,900	8	1 95	129	381	:	116	9.	ş	:	23	.	:	<u>:</u> :	· :	;
Benzie	2,184	12	21	11	6	7	8	ţ-	18	:	7	:		:	-	i
Berrien	85,010	814	648	148	588	C9	215	26	118	;	244	181	6)		·-	:
Branch	26,244	232	258	272	326	-	181	88	8	;	180	157	_	<u>:</u>	÷	÷
Calhoun	86,172	191	285	869	998		221	38	181	! ~	88			<u>:</u>		9

TABLE-CONTINUED.

o "	the.	Unk'wn.	:	:	:	:	:	:	:	:	8	:	63	:		<u> </u>
Excess of Deaths	over Births.	Female.	:	:	:	;	_	:	:	:	:	:	:	:		:
된 -	0 4	Male.	:	:	:	:	:	. :	:	:	:	:	:	:		<u>:</u>
<u>.</u>		Unk'wn.	9	:	:	;	:	;	:	:	:	63	:	:		:
Excess of Births	over Deaths.	Female.	148	15	22	;	222	-	287	12	540	88	8	249		188
	076	Male.	170	16	54	i	246	-	195	11	287	23	111	221		211
		Unk'wn.	;	:	:	;	:	:	_	;	8	:	4	:		:
H8.	SEX.	Female.	88	1-	×c	:	22	1	94	22	108	20	8	66		55
DEATHS.		Male.	102	8	4	:	88	-	86	18	117	55	3	128		98
	nber.	Mpole Nun	200	91	6.	-	17		198	9	228	48	88	333		128
		Unk'wn,	9	:	:	:	:	:	-	:	-	61	61	:		-
IB.	SEX.	Female.	246	33	56	;	810	:	881	\$	848	22	125	878	948	1
BIRTHS		Male.	272	19	83	:	829	:	298	83	854	1 5	158	24	279	
	nper.	Whole Nun	524	7	Z,	-	88		625	8	208	182	98	695	255	
		Marriages.	140	9	13		156	:	148	12	248	8	8	87.	8	
	•	nottalrqoq	20,12	1,724	2,197	1,690	22,586	2,441	25,190	1,211	88,910	4,448	17,859	81,705	18,905	
	COUNTIES.		Cass	Charlevoix	Cheboygan	Chippewa	Clinton	Delta	Eaton	Emmet	Сепевее	Grand Traverse	Gratiot	Hillsdale	Houghton.	

"}			4	113	787	:				77	_	_	_	_	_	
Haron	800'6	. 1 29	3	:						==	8	Ş	_			
Ingham	25,281	168	278	805	241		166	\$	<u>S</u>	:	33	Â	:	:	:	:
Ionia	27,676	506	617	814	808	:	282	128	111	-	191	192	:	:	:	-
Iosco	3,167	4	12	88	83	:	22	16	6	:	12	14		:	:	;
Isabella	4,479	88	118	95	5		88	16	13	:	46	88	:	:	:	;
Jackson	86,082	286	199	828	806	8	217	110	101	:	548	199	00	:	:	;
Kalamazoo	85,068	281	789	868	881	9	277	162	119	ဗ	546	212	4	:	:	:
Kent.	50,880	202	1,007	819	184	64	988	174	160	Ç1	844	252	:	:	:	;
Кеweenaw	4,206		:	:	:	:		-	:	:	:	;	:	:	:	:
Lapeer.	21,855	189	\$0F	208	500	:	125	23	61	-	156	128	:	:	:	-
Leelanaw	4,576	42	188	73	19	-	#	8	7	:	3	48	-	:	:	:
Lenawee	45,685	825	7.	822	888	7	274	158	121	:	202	297	-	:	:	:
Livingston	19,889	119	#	282	212	:	181	ξō	53	:	139	\$;	:	;	;
Mackinac	1,716		:	:	i	:	-	:	:	:	:	:	;	:	:	:
Macomb	21,617	191	999	828	30	;	챯	106	128	:	252	176	:	:	:	;
Manistee	6,074	83	161	98	5	:	S _F	52	83	;	19	25	;	;	:	:
Maniton	891	* .v:	:	:	į			1	:	;	:	:	;	:	:	:
Marquette	14,982	12	168	356	11	:	181	93	15	:	170	96	:	:	:	;
Мавоп	8,266	%	69	82	#	:		83	15		25	53	;	:	:	;
Mecosta	5,645	7.	180	88	5	:	3	55	93	- 	7	47	;	:	:	;
Menominee	1,898	=	왁	83	19		2	တ	9		70	13	:	:	:	-
Midland	8,821	77.	86	6	#	:	8	11	æ	:	2 1	36	:	:	:	÷

TABLE-CONTINUED.

				BIRTHS.	ıs.			DEATHS.	is.		Ex	Excess of		E	Excess of	5 ,
COUNTIES.	***		aber.		SEX.		.19dt		SEX.		over	over Deaths.		over	over Births.	the.
	rophlatiou	Marriages.	Whole Nun	Male.	Гетивіе,	Unk'wn.	ти Боје Хип	Male.	Female.	Unk'wn.	Male.	Female,	Unk'wn.	Male.	Female.	Ľnk'wn.
Monroe	27,486	213	695	986	881	4	243	3	114	60	1282	217	-	1 :	:	:
Montcalm	18,561	28	259	143	117	:	:3	2	25	:	76	8	:	:	;	:
Muekegon	14,899	138	888	186	212	-	188	şō	ŧ	-	118	148	:	:	:	:
Newaygo	1,294	33	208	118	8	:	25	8	81	;	55	28	:	:	:	i
Oakland	40,598	986	90.	870	7 8	G)	146	186	105	;	787	350	G)	:	:	:
Осевпа	7,222	3	188	109	<u>1-</u>	_	5	3	12	:	3	31	H	:	:	:
Ontonagon	2.82	15	111	21	8	:	88	8	18	:	3.	14	:	:	:	:
Osceola	2,658	15	3 5	ಪ	Ŧ	:	10	*	9	:	8	3	:	:	:	i
Ottawa	36,658	11	681	88	381	:	ङ	181	108	:	813	888	:	:	:	:
Baginaw	88,902	182	1,080	247	283	7	#	850	210	13	818	338	:	:	:	*
Sanliac	14,564	ಹ	3	38.	15	-	8	\$	ಪ	:	151	130	1	:	:	:
Вымявне	90,836	83	3	8	3	_	154	2	39	-	211	157	:	:	:	:
Bt, Clair	36,987	201	81- 81-	3	417	o,	3	至	161	=	2	S.	-	:	:	÷

				1	:		;	:		_			1		
Van Buren	98,838	173	300	315	230	= · · · · · · · · · · · · · · · · · · ·	181	100	23	:	908	913	:		:
Washtenaw	11,449	008	Ħ	귫	377	: ::	240	139	130	:	255	237	.:		;
Wayne	119,055	j		1,919	8,704 1,919 1,778	21	1,811	8	180	+	1,199 1	1,186	00		;
Wexford	240	4	10	91	6	:	10	00	01	:	t-	t-			:
State	1,190,187 8,459 27,098 14,071 12,958 64 9,145 4,796 4,806 48 9,275 8,656	8,459	27,098	14,071	12,958	ಪ	9,145	4,796	4,806	2	9,275	8,656	88.	. 	=

-•

The average number of births within several specified periods of time is as follows:

Year	27,093
Month	2,257.75
Week	521.01
Day	73.95

Of the 27,093 children born, 13,572 were males, 12,488 were females, and 64 sex not given. The parents of 12,093 children were born in the United States; the parents of 8,043 children were born in foreign countries; 1,219 children were born of American fathers and foreign mothers; 1,904 children were born of foreign fathers and American mothers, and the nativity of the parents of 2,867 was not returned, or reported as unknown.

African and Indian.—One hundred and fifty-two children (77 males and 75 females) were born of African parents, and seventy-two children (40 males and 32 females) were born of Indian parents.

Twins.—There were born 304 pairs of twins (608 children), of which 319 were males and 289 were females.

Triplets.—Four sets of triplets were born,—one in Barry county, one in Calhoun county, one in Gratiot county, and one in Newaygo county; 12 children, 6 boys and 6 girls.

Illegitimate—One hundred and thirty-seven children,—63 males and 74 females.

Still-born.—One hundred and forty-one still-births are reported,—70 males, 48 females, and 23 sex not given. This number, though nearly double the sum of still-births for the two previous years, is yet far from being correct. In the returns of Massachusetts for 1868, three per cent. of the whole number of births were reported as still-births, while in Michigan, in the returns for 1869, only 0.52 per cent. of the total births are so reported, thus proving beyond all doubt that the returns of Michigan are still incomplete.

Return of still-births made to this office for the period from January 1st to December 31st, 1869, inclusive:

STILL-BIRTHS.

counties.	Males.	Females.	Sex not Given.	Total.
Allegar	1			1
Barry	7	1		8
Berrien			1	1
Branch		1		1
Calhoun	3	1	6	10
Cass		3	2	5
Clinton		1		1
Eaton		2		2
	2	~		3
Gratiot	~	4		4
	1	*		1
Houghton	2	2		4
Ingham	$\frac{z}{3}$	~		3
Ionia	.)			1
Isabella		1		2
Kalamazoo		1	6	•
Kent	7	3	3	13
Lapeer	2			8
Leelanaw	1	1		,
Livingston	2			,
Macomb	1	1		,
Manistee	1			1
Menominee			1	
Monroe	. 3	1		,
Oakland	2			:
Ontonagon		1		
Osceola	1			
Ottawa	4	2		١ ،
Saginaw	5	8	2	1.
Shiawassee	1	1	ĩ	_
St. Clair	2	2	-	
St. Joseph	2	-		
Tuscola	~		1	j '
	1	2		
Van Buren	2	~		
Washtenaw	14	9		2
Wayne	1.4	.,		
State	70	48	23	141

LE, showing, by Counties, the number of Children born races other than White, from January 1st to December t. 1869:

	Api	RICAN.	INI	DIAN.	
COUNTIES.	Males.	Females.	Males.	Females.	Total.
an	۳.	3			10
18	.	1 1	. 2		١ ;
	. 1	1 1			; ;
en	1	6	:	1	1
un	6	4			10
		20	1	1	4
ygan	1	1 1	3	-	: .
on		1			
) <u> </u>	1	1			! .
	_	1 1	24	27	5
et			1	~'	
see		1	1		
ot		1			
hton			i		
nazoo		4			!
r		1			
naw		5		1 1	1
gston	.	1			
stee		1		1 1	İ
oe	1	1 1		1 1	
egon	. 1				
ygo		_	1		i
and	2	2			
18	1		5	1 1	
aw			2	2	
seph	1		~	~	
Buren		8	1		1
	-		_ I		1
tenaw	1	8			
e	. 11	5			1
tal	77	75	40	32	22

TWINS.

Analysis, by Counties, of the Birthplaces of the Parents of Twins, and the several occupations of their Fathers, according to the returns.

Allegan—Nine American, 1 Canadian, 1 American father and English mother, 1 German father and Irish mother, 1 Canadian father and American mother. Eleven fathers are farmers, one mechanic, one carpenter. Total, 13 pairs, or 26 children.

Alpena—Two Canadian. One father a farmer, and one a laborer. Total, 2 pairs, or 4 children.

Antrim—One American. Father a farmer. Total, 1 pair, or 2 children.

Barry—Three American, 1 German, 1 Canadian, 1 American father and English mother, 2 Canadian father and American mother, 1 parents unknown. Eight fathers are farmers, and one a shoemaker. Total, 9 pairs, or 18 children.

Bay—Three American, 3 Canadian, 1 German, 1 English father and German mother, 1 American father and English mother, 1 German father and unknown mother. Five fathers are farmers, 3 laborers, 1 a brickmaker, and 1 a shoemaker. Total, 10 pairs, or 20 children.

Berrien—One American, 1 Canadian, 1 German. One father is a farmer, 1 a laborer, and 1 a mechanic. Total, 3 pairs, or 6 children.

Branch—Three Irish, and 1 American. Three fathers are farmers, and 1 a tailor. Total, 4 pairs, or 8 children.

Calhoun—Five Americans, 1 English, 2 German, 1 Irish, 1 Canadian father and American mother, 1 Irish father and American mother, 1 English father and American mother. Eight fathers are farmers, 1 blacksmith, 1 clerk, 1 boilermaker, 1 merchant. Total, 12 pairs, or 24 children.

Cass—Six American. All the fathers are farmers. Total, 6 pairs, or 12 children.

Chinton—Seven American. Four fathers are farmers, 2 mechanics, and 1 merchant. Total, 7 pairs, or 14 children.

Eaton—Ten American, 1 Canadian, 1 Canadian father and American mother, and 1 German father and American mother. Nine fathers were farmers, 1 laborer, 1 blacksmith, 1 boot and shoemaker, and 1 tinner. Total, 13 pairs, or 26 children.

Genesee—Fourteen American, 1 English, 1 Canadian father and Irish mother, 1 French father and American mother. Twelve fathers are farmers, 1 joiner, 1 clerk, 1 miller, 1 tanner, 1 dentist. Total, 17 pairs, or 34 children.

Grand Traverse—One Canadian father and American mother, 1 American father and Irish mother, and 1 unknown. Two fathers are farmers, 1 unknown. Total, 3 pairs, or 6 children.

Gratiot—Two American, 1 American father and Canadian mother, and 1 American father and unknown mother. Fathers are all farmers. Total, 4 pairs, or 8 children.

Hillsdale—Six American. Five fathers are farmers, and 1 a laborer. Total, 6 pairs, or 12 children.

Houghton—Six Irish, 1 German, 1 English. Two fathers are laborers, 3 miners, 1 blacksmith, 1 carpenter, 1 overseer. Total, 8 pairs, or 16 children.

Ingham—Seven American. Four fathers are farmers, 1 painter, 1 miller, 1 horse farrier. Total, 7 pairs, or 14 children.

Ionia—Eight American, and 1 Irish. Six fathers are farmers, and 3 laborers. Total, 9 pairs, or 18 children.

Iosco—Father Canadian and mother unknown. Total, 1 pair, or 2 children.

Isabella—One American. Father a farmer. Total, 1 pair, or 2 children.

Jackson—Four American, 1 American father and Canadian mother, and 1 Irish father and American mother. Two fathers are farmers, 2 mechanics, 1 grocer, and 1 laborer. Total, 6 pairs, or 12 children.

Kalamazoo-Eight American, and 1 Canadian father and

American mother. Five fathers are farmers, 1 merchant, 1 hardware dealer, 1 carpenter, and 1 unknown. Total, 9 pairs, or 18 children.

Kent—Three American, I Irish, 1 Danish, 1 German father and unknown mother, 1 American father and Canadian mother, 1 unknown. Seven fathers are farmers, and 1 a saloon-keeper. Total, 8 pairs, or 16 children.

Lapeer—Six American, 2 German father and American mother, and 1 Canadian. Six fathers are farmers, 1 cooper, 1 miller, 1 carpenter. Total, 8 pairs, or 16 children.

Leelanaw—One Bohemian. Father a farmer. Total, 1 pair, or 2 children.

Lenawee—Seven American, 1 German, 1 Swede, 1 Canadian father and Irish mother, 1 Scotch father and Irish mother. Four fathers are farmers, 2 laborers, 1 engineer, 1 teamster, 1 carpenter, 1 clerk, 1 blacksmith. Total, eleven pairs, or 22 children.

Livingston—Three American, and 1 American father and unknown mother. Three fathers are farmers, and 1 a manufacturer. Total, 4 pairs, or eight children.

Macomb—One American, 1 German, and 1 Canadian father and American mother. One father is a farmer, 1 laborer, and 1 builder. Total, 3 pairs, or 6 children.

Manistee—One American. Father a farmer. Total, 1 pair, or 2 children.

Marquette—One Scotch father and Canadian mother. Father a farmer. Total, 1 pair, or 2 children.

Mason—One English. Father a farmer. Total, 1 pair, or 2 children.

Mecosta—One Canadian father and American mother. Father a farmer. Total, 1 pair, or 2 children.

Midland—One American. Father a farmer. Total, 1 pair. or 2 children.

Monroe—Two American, and 1 American father and Canadian mother. Fathers all farmers. Total, 3 pairs, or 6 children.

Montcalm—One Danish. Father a farmer. Total, 1 pair, or 2 children.

Muskeyon—One German, 2 American, 1 Hollander, 1 Norwegian, 1 father Prince Edward Islander and mother American. One father is a farmer, 1 carpenter, 1 painter, 1 saloon-keeper, and 1 laborer. Total, 6 pairs, or 12 children.

Newaygo—Three American, and 1 Canadian. Fathers all farmers. Total, 4 pairs, or 8 children.

Oakland—Three American, 1 German, 1 Irish, 1 English father and Canadian mother, and 1 Scotch father and Canadian mother. Six fathers are farmers, and one unknown. Total, 7 pairs, or 14 children.

Oceana—Three American. Two fathers are farmers, and 1. attorney. Total 3 pairs, or 6 children.

Ontonagon—One Irish, and 1 Canadian father and American mother. One father a miner, and one a carpenter. Total, 2 pairs, or 4 children.

Osceola—One German, and 1 American father and Canadian mother. Fathers are farmers. Total, 2 pairs, or four children.

Ottawa—Three American, and one Netherlander. Two fathers are farmers, 1 wheelwright, and 1 master of propeller. Total, 4 pairs, or 8 children.

Saginaw—One American, 4 German, 1 Scotch, 1 Bavarian, 1 Irish father and American mother, 1 American father and unknown mother, and 1 Scotch father and English mother. Four fathers are farmers, 3 laborers, 1 shoemaker, 1 saloon-keeper, and 1 teamster. Total, 10 pairs, or 20 children.

Sanilac—One Irish, 1 Canadian father and English mother, 1 Canadian, 1 Canadian father and American mother, and 1 American father and Canadian mother. Four fathers are farmers, and 1 a blacksmith. Total, 5 pairs, or 10 children.

Shiawassee—Seven American, and 1 Irish. Six fathers are farmers, 1 laborer and 1 blacksmith. Total, 8 pairs, or 16 children.

St. Clair—Three American, 3 Canadian, 1 Irish, 2 Canadian

father and American mother, and 1 Irish father and Canadian mother. Six fathers are farmers, 3 laborers, and 1 Justice of the Peace. Total, 10 pairs, or 20 children.

St. Joseph—Nine American, and 1 German. Six fathers are farmers, 1 cooper, 1 lumberman, 1 tailor, and 1 laborer. Total, 10 pairs, or 20 children.

Tuscola—One German, and 1 American father and Irish mother. Fathers are farmers. Total, 2 pairs, or 4 children.

Van Buren—Five American, 2 American father and Cansdian mother, and 1 unknown. Seven fathers are farmers, and 1 mason. Total, 8 pairs, or 16 children.

Washtenaw—One American, and 1 Irish. One father is a laborer, and 1 manufacturer. Total, 2 pairs, or 4 children.

Wayne—Seven American, 1 Canadian, 3 German, 3 Irish, 1 Prussian, 1 Bohemian father and Prussian mother, 1 Swiss father and Bavarian mother, and 1 unknown. Four fathers are laborers, 1 farmer, 2 cabinet-makers, 1 peddler, 1 doctor, 1 gardener, 1 miller, 1 tinsmith, 1 clerk, 1 mason, 1 salesman, 1 carpenter, 1 brewer, and 1 unknown. Total, 18 pairs, or 36 children.

TRIPLETS.

Four sets of triplets are returned, viz:

- Three boys, born in Baltimore, Barry county, Michigan, August 23, 1869. Father and mother natives of Ohio. Father a farmer.
- 2. Two boys and one girl, born in Emmet, Calhoun county, May 5, 1869. Father an Indianian and a cooper. Mother a New Yorker.
- 3. Three girls, born in North Star, Gratiot county, March 9, 1869. Father an Englishman and a farmer. Mother an American.
- 4. One boy and two girls, born in Sheridan, Newaygo county, June 6, 1869. Father a Pennsylvanian and a farmer. Mother a native of Ohio.

ILLEGITIMATE CHILDREN.

Analysis, by Counties, of the Birthplaces of the Parents of Illegitimate Children, according to the Returns.

Allegan—Three children; 1 American, 1 father unknown and American mother, 1 father unknown and Canadian mother.

Alpena-One child. Parents Canadians.

Berrien—Five children; 4 American, and 1 father unknown and American mother.

Branch—One child; father unknown and Irish mother.

Calhoun—Seven children; 1 American, 5 fathers unknown and mothers American, and 1 German father and American mother.

Cass—One child; father unknown and American mother.

Emmet—Ten children; all Indians.

Houghton—Two children; mothers, 1 Irish and 1 English. Fathers unknown.

Huron—Two children; 1 Canadian, and 1 father unknown and Canadian mother.

Ingham—Three children; 1 American, 2 fathers unknown and American mothers.

Ionia—Two children; 1 unknown father and American mother, and 1 parents unknown.

Iosco-One child; parents unknown.

Isabella—Two children; fathers unknown and American mothers.

Jackson—One child; father unknown and American mother.

Kalamazoo—Three children; 2 American, 1 father unknown and American mother.

Kent—Four children; 4 unknown fathers and American mothers.

Lenawee—Eight children; 3 American, 2 fathers unknown and American mothers, 1 father unknown and German mother, and 2 unknown.

Livingston—One child; American father and unknown mother.

Macomb—Three children; 1 American, and 2 unknown fathers and German mothers.

Mecosta-One child; Canadian.

Midland—Two children; 1 unknown father and English mother, and 1 American.

Monroe-Four children; 2 American, and 2 unknown.

Montcalm-One child; parents unknown.

Oakland—Seven children; 1 unknown father and American mother, and 6 unknown.

Oceana—Two children; unknown fathers and German mothers.

Ontonagon-One child; father unknown and American mother.

Ottawa—Three children; 1 American, 1 father unknown and American mother, and 1 father unknown and mother a Hollander.

Saginaw—Eight children; 1 English father and American mother, 1 father unknown and German mother, 2 fathers unknown and American mothers, 1 father American and mother unknown, and four unknown.

Sanilac—One child; father unknown and Canadian mother.

Shiawassee—One child; father unknown and American mother.

St. Clair—One child; father unknown and Canadian mother. St. Joseph—Six children; 4 American, and 1 pair of twins, father unknown and mother American.

Washtenaw—Seven children; 3 American, 2 unknown father and American mother, 1 American father and unknown mother, and 1 unknown.

Wayne—Twenty children; 1 American, 1 Canadian, 1 German, 1 Polander, 7 unknown father and Canadian mother, 4 unknown fathers and American mothers, 1 Canadian father and American mother, 1 unknown father and Prussian mother, and 2 unknown.

Wexford-One child; American.

BIRTHS FOR SPECIFIED PERIODS.

Quarter	endin	g March, 1869	5,415
" .	66	June, 1869	6,348
"	"	September, 1869	7,879
"	**	December, 1869	7,381
one mor	nth, 2,	of August has the largest number of bir 731; and the month of January the least tage of the parents of children born, is:	
America	an		48.20
Foreign	 -		29.69
America	an fath	ner and foreign mother	4.49
Foreign	father	r and American mother	7.03
Unknov	vn nat	ivity of parents	10.59
_			

Compared with the reports for the last two years, the proportion of American births is 4.01 per cent less than 1868, and 10.08 per cent less than 1867. The proportion of foreign births is 4.36 per cent less than in 1868, and 3.42 per cent greater than in 1867. The proportion of American fathers and foreign mothers is 0.07 per cent greater than 1868, and 0.01 per cent less than 1867. The proportion of foreign fathers and American mothers is 0.24 per cent less than 1868, and 0.12 per cent less than 1867. And the proportion of those whose nativity is unknown is 8.54 per cent greater than 1868, and 6.79 per cent greater than 1867.

From the above it appears that the percentage of American births, as compared with the whole number of births in the State, is gradually decreasing. Of the 7,199 births reported for the counties of Houghton, Ottawa, Saginaw, Sanilac, St. Clair, and Wayne, 59.57 per cent. were foreign, making a larger number of foreign births for these six counties than for any other twelve counties in the State.

The proportion of births to the total population, according to the census of 1870, is nearly 1 to 44.

The proportion of triplets to the whole number of children born in Michigan is 1 to 22513.

The proportion of illegitimate to the whole number is nearly 1 to 198.

The proportion of African children to the whole number ochildren born is about 1 to 178.

The proportion of Indian children to the whole number 1 to 376 7-24.

TABLE

**Contage of Births by Counties and State to Population of
Counties and State.

	Total	Total	bs to
COUNTIES.	Births.	Population.	Per Cent
loona	4	760	0.
416San	698	82,151	2
- Pede	84	8,111	2
atrim	56	2,409	2
WILE.	542	22,070	2
~y	264	15,900	1
CHEIU	21	2,184	0
errien	642	85,010	1.
Lanch	529	26,244	2
	786	86,179	2
A88 _	524	21,097	2
harlevoix	41	1,724	2
- COUTON	54	2,197	2
		1,690	١.
~~ LOn	689	22,886	2
CITA		2,441	
	625	25,190	2
· 41D) et	68	1,211	5
- GD Garage	708	88,910	2
	182	4,448	2
	280	17,859	1
	692	81,705	2
	522	18,905	8
	240	9,058	2
	548	25,281	2
	617	27,676	2
	51	8,167	1
Isa Della Jack	118	4,479	2
Vac Laon	667	36,082	1
Kala masoo	789	82,068	2
Kem t	1,007	50,880	2
Kew senaw.	1,00	4,206	ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ
In Dog	408	21,855	1
Leel bosw	188	4,576	2
Lette wee	744	45,685	1
Livingston	111	19,889	2
Nac kinac	1	1,716	-
Kacosh		27,617	

TABLE—CONTINUED.

COUNTIES.	Total Births.	Total Population.	Per Cent. of Births to Populati'n.
Manistee	161	6,074	2.65
Manitou		891	
Marquette	397	14,982	2.04
Mason	69	3,266	2.11
Mecosta	180	5,645	2.80
Menominee	42	1,893	2.21
Midland	98	3,821	2.80
Monroe	695	27,486	2.55
Montcalm	259	18,561	1.90
Muskegon	899	14,899	2.68
Newaygo	203	7,294	2.78
Oakland	706	40,898	1.72
Oceana	188	7,222	2.60
Ontonagon	117	2,895	4.04
Osceola	75	2,658	2.82
Ottawa	681	26,658	2.55
Saginaw	1,080	88,902	2.77
Sanilac	340	14,564	2.83
Shiawassee	522	20,856	2.50
St. Clair	872	36,887	2.87
St. Joseph	519	26,669	1.90
Tuscola	292	18,715	2.12
Van Buren	605	28,888	2.09
Washtenaw	711	41,449	1.71
Wayne	3,704	119,085	8.11
Wexford	19	740	2.50
State	27,098	1,190,187	2.29

TABLE I.—BIRTHS.

Births by Counties. Percentage of Males to Females.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Fe-
Alcona	25.00	75.00	
Allegan	56.81	48.69	1
Alpena	50.00	50.00	1
Antrim	60.71	89.29	1
Barry	55.09	44.91	1
Bay	48.86	51.14	1
Benzie	55.00	45.00	1
Berrien	58.28	46.72	1
Branch	51.52	48.48	1
Calhoun	50.20	49.80	1
Cass	52.50	47.50	1
Charlevoix	46.84	58.66	"
~debovoan	51.85	48.15	1
44 Dhowe			
	51.56	48.48	1
I ta		10.10	
ton	55.91	44.09	١ -
	46.88	58.12	1
lesee.	50.48	49.57	1
nd Traverse	60.00		_
114/CIOC	55.04	40.00	1
laa.		44.96	1
Dana	49.71	50.29	١.
~	51.28	48.77	1
k .	47.92	52.08	
	55.62	44.88	1
ia CO	55.61	44.89	1
p611°	54.90	45.10	1
bella	54.87	45.18	1
K BOIL	58.92	46.08	1
BDazoo	54.59	45,41	1
n t	51.54	48.46	1
			-
Peer.	50.98	49.02	1
ela naw	58.88	41.67	1
	47.78	52,22	ļ
	52.25	47.75	1
		••••	١.
lacomb.	54.08	45.92	1

TABLE I-Continued.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Fe- males.
Manistee	58.42	46.58	114
Manitou			
Marquette	56.98	48.07	183
Mason	50.72	49.98	102
Mecosta	48.46	51.50	94
Menominee	54.76	45.24	121
Midland	52.69	47.81	111
Monroe	50.65	49.85	108
Montcalm	54.82	45.18	121
Muskegon	46.71	58.21	166
Newaygo	55.66	44.84	125
Oakland	52.56	47.44	110
Oceana	58.89	41.61	189
Ontonagon	48.78	51.27	90
Osceola	48.00	52.00	75
Ottawa	51.88	48.62	105
Saginaw	50.69	49.81	102
Sanilac	54.57	45.48	120
Shiawassee	54.89	45.11	121
St. Clair.	52.07	47.98	108
St. Joseph	37.88	62.17	110
Tuscola	50.17	49.88	100
Van Buren	52.07	47.98	106
Washtenaw	49.79	50,21	96
Wayne	51.98	48.02	108
Wexford	52.68	47.87	111

TABLE II—BIRTHS.

Exhibiting the Sex, condition (as twin or illegitimate), and Parentage of Children born in the several Counties during the period from Jan. 1st to December 31st, 1869, inclusive.

	Births.	8	ex.	- 1	Co	NDIT	101	€.	N	ATIVIT	or P	ARENT	8.
COUNTIES.				n.	Tw	ins.	111	eg	'n	14.5		0.1	į
-SUNTIES.	Number of	Males.	Females.	Unknown.	Males.	Fem.	Males.	Fem.	American.	Foreign.	Am. Fa. For. Mo.	For. Fa. Am. Mo.	Unknown.
Alcona	4	1	8						1		2	1	
llegan	698	367	287	4	13	9	2	1	889	208	92	88	4
apena	84	85	42		4		1		20	59		5	
AHIPI m	56	84	20			2		Ü	29	17	5	5	
TTV	542	279	286		11	10	1	8	379	61	26	62	1
	264	120	124		9	11	1		92	122	16	22	15
1250	21	11	9	1		- 7	1		18	5		8	
111 000	642	332	286	2	2	4	2	3	482	132	28	48	
Deb	529	266	258	1	5	8	1		418	37	17	27	30
Donn	786	346	845	1	15	12	2	5	507	112	84	50	84
B	524	941	219	6	7	5	100	1	488	29	18	80	19
harlevoix.	41	19	92					1	17	14	6	4	
Cheboygan	54	25	25	1		7777		11	18	21	9	8	1
Chi ppewa	04	243	24,	1		3.15			10	21			1
Clin ton	639	819	808		10	6			414	108	89	58	2
Del ta	099	019	000	**	10	.0	2.		414	100	99	•	
Eaton	ear	288	014	1	***		**	**	519	28	28	88	2
Emmet	625		814	1	10	16	**	!	55	1	1	4	
Genesee	68	1 885	1	-:		000	4	6	445	110	86	61	5
Grand Trav	708	0.00	881	1	17	15	1	1	58			16	3
Green and Trav	182	72	52	2 2	6		• •	**	2.5	87	12	25	2
Gratiot	980	151	115	2	2	9			196	28	18	1	2
Honora dale	692	888	842		6	6			582	51	16	35 6	
Honghton	522	268	285		8	8	2		87	478	8	100	
Horacon	240	118	125	••		F-44	2		24	177	15	28	
In S bam	548	298	283		8	6	1	2	420	52	22	40	25
loma i.a	617	805	292	• •	9	9		2	428	78	82	62	1
Isa bella	51	26	22		2			1	7	8	4	5	20
Jack Bella	113	60	49		1	1	1	1	55	10	9	10	84
Jackson	667	849	302	3	9	8	٠.	1	422	123	32	61	24
Kalamazoo	789	384	817	10	10	8	1	2	489	164	28	65	48
Kent. *Keweenaw	1007	502	480	2	12	6	4	1	427	158	47	68	803
re Deer	408	200	189	-	8	10			200	80	41	54	8
Leelansw	188	66	51	1	9	-0			46-	67	8	8	

^{*} Not returned.

TABLE I-CONTINUED.

COUNTIES.	Males, Per Cent.	Females, Per Cent.	No. of Males to 100 Fe- males.
Manistee	58.42	46.58	114
Manitou			
Marquette	56.98	48.07	189
Mason	50.72	49.28	102
Mecosta	48.46	51.50	94
Menominee	54.76	45.24	121
Midland	52.69	47.81	111
Monroe	50.65	49.85	108
Montcalm	54.82	45.18	121
Muskegon	46.71	58.21	166
Newaygo	55.66	44.84	125
Oakland	52.56	47.44	110
Oceana	58.89	41.61	189
Ontonagon	48.78	51.27	90
Osceola	48.00	52.00	75
Ottawa	51.88	48.62	105
Saginaw	50.69	49.81	102
Sanilac	54.57	45.48	120
Shiawassee	54.89	45.11	121
St. Clair	52.07	47.98	108
St. Joseph	37.88	62.17	110
Tuscola	50,17	49.88	100
Van Buren	52.07	47.98	106
Washtenaw	49.79	50.21	96
Wayne	51.98	48.02	108
Wexford	52.68	47.87	111
	1 -2.00		•

TABLE II—BIRTHS.

ribiting the Sex, condition (as twin or illegitimate), and Parentage of Children born in the several Counties during the period from Jan. 1st to December 31st, 1869, inclusive.

	drths.		Sex.		Co	CONDITION. NATIVITY OF						ARENT	8.
NTIES.	of I			V.D.	Tw	ins.	III	eg	i.	100			j.
	Number of Births.	Males.	Females.	Unknown.	Males.	Fem.	Males.	Fem.	American.	Foreign.	Am. Fa. For. Mo.	For. Fa. Am. Mo.	Unknown.
ja	4	1	8				[1		2	1	
an	698	867	287	4	18	9	2	1	389	208	22	88	41
na	84	85	42		4		1		20	59		5	
m	56	84	20			2			29	17	5	5	
T	542	279	286		11	10	1	8	379	61	26	62	14
200	264	120	124		9	11			92	122	16	22	19
ie	21	11	9	1					18	5		8	
en	642	882	286	2	2	4	2	3	432	182	28	48	7
ch	529	266	258	1	5	8	1	U	418	87	17	27	30
)un	786	846	845	1	15	12	2	5	507	112	34	50	33
	524	241	219	6	7	5	L.E		488	29	18	30	19
evolx _	41	19	22		6 7 5 1		17	14	6	4			
oygan	54	25	25	10				18	21	2	8	5	
pewa	12					177			2000	Local Co	10.000		
on	689	819	808		10	6			414	108	39	58	25
a		******								*****	*****		
n	625	288	814	1	10	16			519	28	28	88	22
et	68	1	1				4	6	55	1	1	4	2
see	708	885	381	1	17	15	1	1	445	110	36	61	51
d Trav	182	72	52	2	6				58	87	12	16	9
ot	280	151	115	2	9	9			196	28	18	25	28
dale	692	338	842		6	6			582	51	16	85	8
hton	522	268	285		8	8	2		87	478	8	6	8
n	240	118	125				2		24	177	15	28	. 1
ım	543	298	233		8	6	1	2	420	52	22	40	9
********	617	805	292		9	9		2	423	78	82	62	22
	51	26	22		2			1	7	8	4	5	27
lla	113	60	49		1	1	1	1	55	10	5	10	88
юп	667	349	302	3	9	8		1	422	128	32	61	29
nazoo	789	384	817	10	10	8	1	2	489	164	28	65	48
	1007	502	480	2	12	6	4	1	427	158	47	68	807
еевач.	253.25												
er	408	200	189		8	10			200	80	41	54	88
naw	183	66	51	1	2				46	67	8	8	4

^{*} Not returned.

TABLE II—CONTINUED.

	irths.	8	ex.		Co	NDIT	101	r.	N.	TIVITY	or P	ARENT	8.
COUNTIES.	E B		1 .	d	Tw	ins.	m	eg	i			l .	
	Number of Births	Males.	Females.	Unknown	Males.	Fem.	Males.	Fem.	American.	Foreign.	Am. Fa. For. Mo.	For. Fa. Am. Mo.	Unknown.
Lenawee	744	341	872	1	11	11	8	5	451	128	82	46	8-
Livingston	414	228	206		8	5	1		275	65	14	86	5-2
*Mackinac				!	i								
Macomb	662	855	298		2	4	1	2	282	260	50	59	12
Manistee	161	88	78		8	1		!	81	48	7	11	
*Manitou									ļ				
Marquette	897	224	170		1	1	1		14	10	8	. 9	8631
Mason	69	84	33		1	1			87	20	8	7	22
Mecosta	180	60	66	!	1	1	2		67	80	10	. 14	ע
Menominee	42	28	19						11	19	2	. 9	1
Midland	98	45	44	'	2		2		52	18	7	4	12
Monroe	695	857	328	4,	8	8		4	859	151	50	49	86
Montcalm	250	141	115		1	1	١	1	171	46	14	18	15
Muskegon	899	179	206	1	6	6			125	94	18	46	116
Newaygo	208	104	87	!	, 8	8	ļ		121	27	8	. 19	28
Oakland	706	855	824	2	10	4	8	4	808	81	58	42	222
Oceana	188	101	72	1	2	4	1	1	115	27	16	16	14
Ontonagon	117	55	57		, 2	2		1	8	102	1	8	23
Osceola	75	32	89		2	2	١		80	84	4	7	l
Ottawa	681	348	827	i	7	1		8	167	859	24	89	92
Saginaw	1080	529	515	1	8	12	6	3	148	266	45	74	5552
Sanilac	840	180	148	1	4	6	1		86	246	25	98	
Shiawassee	522	281	228	1	4	12	1		819	98	82	47	81
St. Clair	872	442	407	2	11	9		1	164	521	76	102	42
St. Joseph	519	259	288	'	11	9	1	5	397	76	12	28	45
Tuscola	292	144	148	1	2	2	١		129	62	18	. 86	4=
Van Buren	605	800	276		10	6	١		406	55	19	41	8-4
Washtenaw	711	348	841	'	8	1		7	886	217	48	. 56	5-4
Wayne	3704	1879	1788	12	15	28	14	7	978	2424	90	119	تغو
Wexford	19	9	9				1		16			2	1
State	27,098	18,572	12,488	64	819	289	68	74	18,060	8,048	1,219	1,904	2,867

^{*} Not returned.

sember 31st, 1869, inclusive.		
ember 31.	nclusic	
ember 31.	1869,	
semp	۲,	
Š	mber	

			# # # # #		<u>!</u>	MO	MONTHS		: !	: !		i	•
COUNTIES.	. Trannat	Гергиягу.	Жагер.	.[hգA	May.	Jane.	July.	August.	September.	Осторет.	Zovember.	D ссевирет.	Caknowa.
Alcona	:	1	-	:	;	-	:	i	:	:	-		. ·
Allegan	49	Ŧ	6	\$	3	24	8	25	2	28	支	8	:
Alpena	ç	4	œ	ec	æ	1-	22	22	C1	Ε,	2	2	:
Antrim	64	61	œ	÷	œ	g	7	9	÷1	P•	31	10	
Barry	83	35	8	88	47	8	3	8	6	8	8	Z	:
Вау.	20	1-	56	81	81	19	25	8	ន	22	25	ã	_
Benzie	91	Ç1	-	-	-	-	:	4	-	+	æ	:	_
Berrien	28	3	ಪ	\$	33	3	25	1:	E	3	22	#	:
Branch	#	83	8	5	8	88	7	2	2	25	14	\$	-
Calboun	8	7	ತ	ತ	8	55	28	19	2	18	7	12	*
Class	56	28	81	\$	7	8	3	3	3	25	8	8	_
Charlevoix	61	G1	•	-	•	•	₩	٠	•••		24	•	:

TABLE III-CONTINUED.

						M O	MONTHS						
COUNTIES.	January.	February.	Матсh.	April.	May.	-Эппе.	July.	.isuguA	September.	October.	November.	Десешрет.	Оприноми.
Cheboygan	8	-	20	9	8	-	9	20	6	4	8	œ	
Clinton	37	97	ន	57	28	\$	8	89	8	z	88	8	-
Eaton	8	88	43	98	\$	17	23	19	86	8	28	8	:
Emmet.	ø	ĸ	C1	4	•	4	8	•	6	9	9	,	:
Genesce	ភ	9	4	19	8	57	3	15	18	89	41	8	-
Grand Traverse	6	10	2	16	22	18	10	2	œ	11	2	10	;
Gratiot	16	11	ន	88	27	85	12	8	88	56	83	22	:
Hillsdalc	3	8	ક્ક	#	7.	45	85	92	19	13	8	8	-
Houghton	84	27	#	ಪ	22	#	2	#	48	3	 	22	;
Huron	16	33	13	Ş	57	1,4	11	20	83	88	=	12	:
Ingham	8	45	88	47	80	88	12	2	4	28	28	64	œ
Ionla	81	8	26	33	20	ತ	20	19	25	33	35	85	æ
Iosco	*	21	31	20	1-	4	æ	œ	9	ĸ	01	22	-
Isabella	•	20	a	x	a	2	æ	•	-			=	•

Jackson	98	8	49	8	63	8	55	1,4	3 2	72	28	\$	-
Kalamazoo	20	48	\$	49	33	19	73	8	15	122	8 2.	8	04
Kent	ま	63	8	68	3 5	16	101	26	121	88	100	80	•
Lapeer	\$1	23	83	22	88	88	4	83	46	38	36	8	:
Leelanaw	2	1-	ю	17	15	2	13	12	=	11	ю	13	i
Lenawec	&	ヹ	4	28	88	88	99	9.1	ŧ	99	ŧ	92	-
Livingston	8	83	33	83	28	53	8	48	24	41	17	31	
Macomb	8	22	41	3	88	28	z	25	19	3	J	8	į
Manistee	Ħ	6	21	10	11	2	18	7.	13	18	1-	13	į
Marquette	13	83	24	8	83	87	22	1#	40	52	#	39	-
Mason	œ	ေ	×o	61	2	10	2	12	01	٥	7	ေ	:
Mccosta.	80	-	10	14	11	9	21	11	13	=	10	18	i
Menominec	П	61	*	9	œ	k-	ဇာ	က	-	;	8	ĸ	į
Midland	6	9	1-	4	13	-0	=	-	1-	6	10	ø	į
Monroe	97	28	88	98	23	æ	29	19	6.2	83	8	8	-
Montcalm	16	13	19	18	88	15	¥	57	55	ន	52	23	;
Muskegon	58	8	88	8,	23	13	8	25	8	81	35	8	:
Newaygo	14	19	91	14	23	18	22	50	92	#1	2	19	64
Oskland	22	Z	28	8	\$	88	15	£	55	8	46	19	q
Oceans	91	13	19	12	13	83	=	21	21	16	19	15	i
Ontonagon	90	10	ю	۲-	17	53	9	۳	6	0.	6	=	:
Osceola	•	•	9	•	6	4	~	œ	4	6	69.	ĸ	i

TABLE III-CONTINUED.

) W	MONTHS.	3.	·				
COUNTIES. '	Jannary.	Гергавгу.	Матсћ.	April.	May.	Jnne.	ન ુոյչ.	August,	September.	October.	До метрег.	ресешрег	Опкпочп.
Ottawa	37.	8	3	#	84	8	83	šē.	8	8	48	83	_
Saginaw	28	26	91	61	88	88	96	101	105	108	102	106	-
Santlac	11	18	22	88	56	22	7.7	37	55	83	97	83	
Shiawassee	88	58	58	88	46	49	\$7	28	46	14	51	17	:
St. Clair	z	ヹ	89	0.	99	8	8	83	8	1:	98	<u>8-</u>	ee
St. Joseph	8	œ	#	88	33.	&	æ	49	83	88	ĸ	94	
Tuscola	13	83	89	68	19	88	\$3	88	28	6	50	11	
Van Buren	8	88	8	7.	88	83	49	47	8	19	99	뫉	-;
Washtenaw	5	8	25	ŝ	26	ş	8	£5.	33	8	8	33	
Wayne.	258	285	812	291	270	553	808	188	815	366	308	450	23
Wexford	:	-		i	9	-	21	61	7.5	-	i	-	
State	1,658	1,752	2,005	2,042	2,221	2,085	2,466	2,781	2,689	2,508	2,861	2,512	8

MARRIAGES.

The number of marriages from January 1st to December 31st, 1869, was 8,459, or 16,918 persons married. Four thousand nine hundred and forty-nine couples were born in the United States; 1,620 couples were born in various foreign countries; 506 couples were American male and foreign female; 895 couples were foreign male and American female, and 489 couples whose nativity was not stated in the returns.

Seventy-four African and 33 Indian couples were married.

Four thousand three hundred and ninety persons were married under 21 years of age, as follows:

Three hundred and four males aged 20; 136 males aged 19; 51 males aged 18; 10 males aged 17, and 1 male aged 16. Total, 502.

Eight hundred females aged 20; 880 females aged 19; 960 females aged 18; 676 females aged 17; 462 females aged 16; 87 females aged 15; 21 females aged 14; 2 females aged 13, and 1 female aged 10. Total, 3,889.

The largest number of persons (6,490) were married between the ages of 20 and 25; the second greater number (3,522) between the ages of 25 and 30; and 3,471 were married under 20 years of age. The oldest couple married was composed of a farmer aged 72, and a woman aged 80. The youngest couple, a young man aged 22, and a girl aged 10.

The greatest monthly return of marriages was for January, —810; the least number for December,—563.

oo inind amoistanion amount	
The number of marriages for each quarter is as follows	ws:
Quarter ending March, 1869	2,167
" " June, 1869	2,097
" "September, 1869	2,154
" December, 1869	
Date of marriage not stated	. 17
The following is the percentage of nativities of married, viz:	persons
American	58.51
Foreign	
American male and foreign female	5.98
Foreign male and American female	10.58
Nativity unknown	5.78
number of marriages is as 1 to 256\frac{1}{3}. The number of Africans married, in proportion to riages, is nearly 1 to 115. The following analysis shows the percentage of married at certain periods of life, including both sexes	persons
Under 20 years	20.527
From 20 to 25 years	38.362
" 25 to 30 "	20.818
" 30 to 35 "	7.678
" 35 to 40 "	4.102
" 40 to 45 "	2.293
" 45 to 50 "	1.714
" 50 to 55 "	1.099
" 55 to 60 "	.715
" 60 to 65 "	. 437
" 65 to 70 "	. 218
" 70 to 75 "	. 124
" 75 to 80 "	.047
Over 80 years	.004

Unknown ages

1.862

Among the remarkable features in the returns of marriages is the difference shown in the ages of the parties joined. Below is given a synopsis of the marriages exhibiting the greatest disparity in age, also showing the occupation of the bridegroom:

Allegan—Man aged 72, chairmaker, married to woman aged 60

Alpena-Man 31, lumberman, woman 40.

Barry-Man 76, unknown, woman 36.

Bay-Man 65, laborer, woman 63.

Berrien-Boy 17, farmer, girl 19.

Branch—Boy 18, farmer, girl 17.

Calhoun—Boy 18, farmer, girl 16.

Cass—Boy 17, farmer, girl 16.

Clinton-Man 64, farmer, woman 54.

Eaton-Man 22, mason, girl 10.

Emmet—Boy 19, laborer, girl 18.

Genesee-Boy 19, laborer, girl 16.

Grand Traverse—Man 63, farmer, woman 53.

Gratiot-Man 66, farmer, woman 51.

Hillsdale-Man 38, clerk, woman 69.

Houghton-Man 24, miner, woman 30.

Huron—Man 56, minister of the gospel, woman 53.

Ingham-Boy 19, farmer, woman 25.

Ionia—Man 70, blacksmith, woman 70.

Iosco—Boy 19, sailor, girl 17.

Isabella—Boy 17, farmer, woman 25.

Jackson-Man 67, merchant, woman 52.

Kalamazoo-Boy 20, farmer, woman 47.

Kent-Man 49, farmer, woman 78.

Lapeer-Boy 17, farmer, girl 14.

Leelanaw—Boy 20, farmer, girl 14.

Lenawee-Man 65, farmer, woman 55.

Livingston-Man 72, farmer, woman 80.

Macomb-Man 73, farmer, woman 62.

Manistee-Boy 18, farmer, girl 16.

Marquette-Man 32, laborer, woman 45. Mason—Man 23, farmer, woman 33. Mecosta—Boy 16, farmer, girl 16. Midland—Boy 18, farmer, girl 17. Monroe-Man 25, laborer, woman 59. Montcalm-Man 76, farmer, woman 67. Muskegon-Man 25, farmer, girl 14. Newaygo-Man 67, farmer, woman 56. Oakland-Man 38, farmer, woman 60. Oceana-Man 50, mechanic, girl 19. Ontonagon-Man 26, sailor, girl 13. Osceola-Man 29, farmer, girl 17. Ottawa-Man 50, farmer, girl 17. Saginaw-Man 71, painter, woman 71. Sanilac-Man 24, farmer, woman 34. Shiawassee-Man 66, R. R. employe, woman 24. St. Clair-Boy 18, farmer, girl 18. St. Joseph—Man 61, farmer, woman 61. Tuscola-Man '76, carpenter, woman 24. Van Buren-Man 67, farmer, woman 72. Washtenaw-Boy 19, farmer, girl 14.

Wayne—Man 40, unknown, girl 15. Wexford—Boy 19, farmer, girl 16.

The following comprehensive table exhibits the ages respectively of all the parties married during the time embraced in this report:

					Ages	0 P	FE	MA	LES	١.						
AGES	1															68
MALES.	Under 20.	20 to 25.	25 to 30.	30 to 35.	85 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 79.	70 to 75.	75 to 80.	Over 80.	Unknown.	Total Males.
Under 20	179	87	5				_			_	_		-			221
20 to 25	1,897	1,898	179	30	5	1	1								24	8,580
25 to 80	797	1,067	471	78	22	6	2		1						12	2,461
90 to 85	164	328	282	124	88	6	2								3	887
85 to 40	57	118	111	95	44	19	9			1					1	455
40 to 45	18	24	68	41	45	81	13	5								250
45 to 50	6	17	82	39	41	80	19	7	3				1		1	190
50 to 55	3	8	10	20	30	25	18	12	4	1	-					181
55 to 60		8	4	7	14	11	17	12	8	1						- 77
60 to 65		1	8	1	6	6	6	11	9	9			-			59
65 to 70		1			2	2	6	2	10	4	2	1	1			84
70 to 75				1	1	1	9	4	3	4		2		1		19
75 to 80		1				1		1		1	3					1
Over 80				-44											****	بغيدته
Unknown	1	2		1		****						ë			185	189
Total Females.	8,107	8,015	1,115	442	248	139	95	57	88	21	5	3	2	1	176	8,406

5.93 per cent of the males, or about 1 in 16, were married under the age of 21 years.

45.98 per cent of the females, or nearly 1 in 24, were married before reaching the 21st year.

TABLE I.—MARRIAGES.

Showing, by Counties, the number of Marriages in which the Races of the parties were other than White:

	RAC	CES.
COUNTIES.	AFRICAN.	India
Allegan	2	••
Antrim		1
Bay		1
Berrien	4	
Cass	12	
Clinton	1	
Emmet		12
Genesee	1	
Gratiot	1	
sabella		4
ackeon	3	 ,
Kalamazoo	8	
Leelanaw		12
enawee	2	'
.ivingston	1	
Marquette	1	
Newaygo		1
Oakland	5	
Oceana		1
Ottawa	1	
Baginaw	2	
St. Clair	1	
Van Buren	1	1
Vashtenaw	4	
Wayne	24	
State	74	88

TABLE III-MARRIAGES.

Distinguishing by Counties and by Months, the number of Marriages Registered from January 1st to December 31st, 1869, inclusive.

						М (נא כ	нѕ						
Counties.	No. of Marriages.	January	February.	March.	April	May	June.	July.	August.	September.	October.	November.	Becember.	Unknown.
- lcons	5		8				1							
Allegan	260	20	25	18	24	22	17	18	11	84	26	21	29	
Alpena Antrim Barry Bay Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa Clinton *Delta	42		1	2	5		1	5	6	4	2	7		
Bary Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa Clinton	14	1	-	3	2		1			1	3	1		
Alpena Antrim Barry Bay Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa Clinton	140	13	11	15	9	14	11	8	12	11	9	17	10	
Alpena Antrim Barry Bay Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa Clinton	86	7	2	8	s	13	3	7	6	7	9	12		
Barry Bay Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa Clinton	12					2	1.	5		1	54	1	8	
Bay Benzie Berrien Calhoun Cass Charlevoix Cheboygan Clinton Clinton	814	26	86	82	29	26	28	19	24	80	84	16	18	1
Barry Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa	285	80	19	20	13	20	12	24	18	26	26	15		
Bary Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa	164	28	11	19	16		11	8	10	19	12	15	4	
Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan	149		18	99	21	9	8	10	13	19	9	7		1
Benzie Berrien Branch Calhoun Cass. Charlevoix Cheboygan *Chippewa	. 6		1					1		1		1		
	15	2	1	1	1	3	5.5	1		2		1		1
Bary Bay Benzie Berrien Calhoun Cass Charlevoix Cheboygan Clinton Clinton										1.		.4-		
Bary Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa Clinton	156	19	17	14	21	7	18	12	11	18	16	9	4	
Barry Bay Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa Clinton								42			1	-		
Bary Bay Benzie Berrien Branch Calhoun Cass Charlevoix Cheboygan *Chippewa Clinton *Delta Eaton	148	16	13	16	6	10	14	17	11	12	16	6	6	
Emmet	12	1	4					8				2		
Genesec	248	23	21	19	26	21	99	21	28	27	21	16	8	
Gr'd Traverse	81	4	9	8	4	4	4	2	3	1	2	1		
Gratiot	90	12	7	7	4	4	8	8	7	5	12	7	14	
Hillsdale	223	30	81	81	25	18	14	28	14	16	9	5	6	1
Houghton	63	6	5	8	4	8	7	5	5	4	9	5		
Huron	67	5	4	6	8	7	5	9	5	8	4	7	9	
Ingham	168	11	12	11	15	19	12	14	15	24	18	11	1	
Ionia	206	25	18	21	18	15	15	81	13	17	18	14		

TABLE II—CONTINUED.

COUNTIES.	Total Marringes.	Total Population.	Percent. of Marriages to Popula'n
Kewcenaw		4,206	
Lapeer	189	21,855	0.65
Leelanaw	42	4,576	0.91
Lenawec	325	45,635	0.71
Livingston	119	19,889	0.61
Mackinac		1,716	
Macomb	161	27,617	0.58
Manistee	68	6,074	1.11
Manitou		891	
Marquette	75	14,982	0,50
Mason	27	8,266	0.80
Mecosta	74	5,645	1,81
Menominee	11	1,898	0.58
Midland	27	3,821	0.81
Monroe	218	27,486	0.77
Montcalm	88	18,561	0.66
Muskegon	158	14,899	1.02
Newaygo	58	7,294	0.72
Oakland	330	40,898	0.80
Oceana	64	7,222	0.88
Ontonagon	15	2,895	0.5
Osceola	15	2,658	. 0.5
Ottawa	177	26,658	0.60
Saginaw	182	, 38,902	0.4
Sanilac	91	14,564	0.6
Shiawassee	129	20,856	0.61
St. Clair	264	36,887	0.71
St. Joseph	289	26,669	1.08
Tuscola	74	13,715	0.5
Van Bureu	179	28,988	9.62
Washtenaw	300	41,449	0.73
Wayne	904	119,085	0.76
Wexford	4	740	0,56
State	8,450	1,190,187	0.63

TABLE III-MARRIAGES.

Distinguishing by Counties and by Months, the number of Marriages Registered from January 1st to December 31st, 1869, inclusive.

	-	- · - -											
					N	נא ס	HS	•					
No. of Marriages.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	Becember.	Unknown.
5		8			1	1							
260	20	25	18	24	22	17	18	11	84	26	21	29	
42	1	1	2	5	7	1	5	6	4	2	7	1	
14	1		8	9		1			1	3	1	2	
140	13	11	15	9	14	11	8	12	11	9	17	10	
86	7	2	8	s	18	3	7	6	7	9	12	9	
12					2		5		1		1	3	
814	26	86	82	29	26	23	19	24	80	34	16	18	1
285	30	19	20	18	20	12	24	18	26	26	15	17	
164	28	11	19	16	11	11	8	10	19	12	15	4	
149	11	18	22	21	9	8	10	18	19	9	7	6	1
. 6		1			1		1	1	1		1		
15	2	1	1	1	8		1		2	٠	1	2	1
156	19	17	14	21	7	18	12	11	13	16	9	4	
148	16	13	16	6	10	14	17	11	12	16	6	6	
12	1	4					3	1			2	1	
248	28	21	19	26	21	22	21	28	27	21	16	8	
81	4	2	8	4	4	4	2	3	1	2	1	1	
90	12	7	7	4	4	8	8	7	5	12	7	14	
223	80	31	81	25	18	14	28	14	16	9	5	6	1
63	6	5	8	4	8	7	5	5	4	9	5	2	
67	5	4	6	8	7	5	9	5	8	4	7	9	
168	11	12	11	15	19	12	14	15	24	18	11	6	
206	25	13	21	18	15	15	81	13	17	18	14	11	
	55 260 42 14 140 86 12 814 285 164 149 6 15 156 248 81 90 223 63 67 168	5 260 20 42 1 14 1 140 13 86 7 12 814 26 285 30 164 28 149 11 6 15 2 156 19 148 16 12 1 248 23 81 4 90 12 223 30 68 6 67 5 168 11	5 8 260 20 25 42 1 1 14 1 140 13 11 86 7 2 12 814 26 36 285 30 19 164 28 11 149 11 18 6 1 155 2 1 156 19 17 148 16 13 12 1 4 248 23 21 81 4 2 90 12 7 223 30 31 63 6 5 67 5 4 168 11 12	5 8 260 20 25 18 42 1 1 2 14 1 3 140 13 11 15 86 7 2 8 12 314 26 36 32 285 30 19 20 164 28 11 19 149 11 18 22 6 1 15 2 1 1 15 2 1 1 15 2 1 1 15 19 17 14 148 16	5 8 260 20 25 18 24 42 1 1 2 5 14 1 8 2 140 13 11 15 9 86 7 2 8 8 12 314 26 36 82 29 235 30 19 20 13 164 28 11 19 16 149 11 18 22 21 6 1 15 2 1 1 1 15 19 17 14 21 15 19 17 14 21	Second S	1	Secondary Seco	5 8 1 1 260 20 25 18 24 22 17 18 11 42 1 1 2 5 7 1 5 6 14 1 8 2 1 140 13 11 15 9 14 11 8 12 86 7 2 8 8 18 3 7 6 12 2 5 314 26 36 82 29 26 23 19 24 235 30 19 20 18 20 12 24 18 164 28 11 19 16 11 11 8 10 18 149	1			

^{*} Not returned.

TABLE IV—MARRIAGES.

Distinguishing, by Counties. the Nativities and Ages, in Years, of Parties Married from January 1st to December 31st, 1869, inclusive.

•			×	Nativity							AGES	x 1 x	ı	YEARS	ec				Ì		
COUNTIES.	No. Court	Атенсвп.	Foreign.	Amer. Males and For. Females.	For. Males and Am. Females.	Спкпомп.	Under 20.	.62 01 02	.08 03 52	.68 ot 08	85 to 40.	40 to 45.	45 to 50.	50 to 55.	.00 to 60.	.07 of 68	.87 01 07	12 to 80.	.06 197()	Unknown.	,
Alcona,			21	61			ಹ	7		31	-			<u>:</u>						<u>i i</u>	
Allegan	560	156	8	12	2	15	118	178	105	8	প্ত	5	=	2	24	8					
Alpena	45	9	=	20	1-	-81	#	81	2.7	65	4	4	O1	-:		<u>:</u>	_ <u>:</u>	<u>.</u>			
Antrim	<u></u>	- 6-	.	_	1		э. ,	10	9	61	:	-	- ; - ;	:	_ <u>:</u>	_ <u>;</u>					
Barry	140	105	2	œ	9	13	19	33	ಶ	81	15	15	- CO	6	:	_ <u>:</u>	_ <u>-</u>	:			
Вау	~ 2	16	#	16	15	ro.	8	33	56	18	8		-;-	61		61	_ <u>:</u>	_ <u>:</u>		_	
Benzie	15	31	31		-	œ ·	9	9		24	61	<u>:</u>		- ;	:		:			.	
Berrien	814	539	ਕ :	' φ΄	98	Э.	15	588	88	4	58	6.	6	-	-		_	01			
Branch	88	202	6	_ ca _	12	- C1	102	166	88	97	8	15	œ	1-	10	4	01	-:		:	
Calhoun	1	129	13	_ oo .	G.	9	3	127	25	ಪ	15	9	6	9	4	01	61	21			
Case	149	181	23	4	13	4	8	116	ಪ	16	18	2	20	<u> </u>		-				Ç1	
Charlevoix.	- 9	 	64	•			-,-	64							_		:				

 18	9	•			<u> </u>	9	97	•	60	;	1	1	÷	1	:			:	:	
 1	1	!	:	:	:	-	:				1	1	1	+	3	+		:	i	i
126	119	•	م	17	•	8	118	8	88	8	4	00	60	00	H	*1		:	1	i
1	1		-			-	:		.:	1	1	1	-	+		-	- 1	. !	1	
148	118	128	04	4	1-	F	127	7	119	10	1-	91	00	4	69	+	4	1		}
120	11		•		H	<u>a</u>	∞	29	1	-	-	80	1	1	1		1	1	1	:
878	. 168	83	2	88	16	108	210	8	35	8	10	0	9	78	60	-	1	1	1	04
81	19	•		•		8	2	•	-	1	09	1	-	н	H	,	- 1	- 1	-	
06	8	94	*	18	80	23	\$	8	6	4	-	9	-	1	-	=	- 1	î	1	7
228	171	•	×	17	3	8	180	8	80	13	6	=	00	*	00	60	- 10	- 1	í	•
8	00	9	•	ю	20	\$	3	8	10	4	-	i	Ť	1		1	1	1	1	-
19	2	7	ю	18	Ħ	8	3	22	13	4	60	64	00	=	1	-	1	- (1	04
168	127	14	۵	6 0	07	8	187	8	31	77	ţ=	60	60	4		÷	1	;	-	64
206	149	71	18	88	-	88	160	2	88	18	15	00	1-	60	69		69	-	1	_
14		10	, 69	H		•	12	*	10	1	-	1	1	+	1	-	0.	- 1	-	_ ;
85	36	Ī	-	64		8	88	#	-01	2	00	1	1	1	- 1	- 1		1	1	
286	196	۵	22	18	•	28	218	38	88	11	6	10	9	90	64	09		- 1		77
281	159	8	\$1	20	8	8	171	118	42	12	10	10	4	60	-	•	Ħ	1	1	•
 202	507	8	8	22	11	194	907	212	18	20	26	24	9	1-	03	Ħ		H	-	_
1	-		-	i	Ī	$\overline{}$			- 12		1	i	i		:	•		1	1	
189	81	11	16	8	**	8	182	28		1	•	-	*	Ġ\$	-	-				_

* Not returned.

TABLE IV-MARRIAGES.

Distinguishing, by Counties, the Nativities and Ages, in Years, of Parties Married from January 1st to December 31st, 1869, inclusive.

-	.83		7K	NATIVITY	١					V	#	8 1.3	×	EAR	m					İ	1
COUNTIES.	No. Coupri	Атонсав.	Foreign.	Amer, Males and For, Females.	For. Males and Am. Females.	Опкпомп.	Under 20.	20 to 25.	.08 to 80.	80 to 85.	85 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	.07 of 68	.67 of 07	.08 ot 87	.08 T9VO	Linknown.	/
Alcona,	_ ₂₀ _		61	61			8	4		81	=		<u>:</u>	- 	_ <u>;</u> _;	_ <u>i</u>					
Allegan	-95 -	156	8	13	₹	15	118	173	105	8	8	15	=	10	67	: •					
Alpena	43	9	11	ĸ	. 1-	18	7	28	77	œ	4	4	63		- :	<u>:</u>	<u>:</u>				
Antrim	7	6	co		- =	-	6	20	ဗ	61	:	-	$\frac{\cdot}{\cdot}$:	_ <u>:</u>	<u>:</u>		<u>:</u>			
Barry	140	105	10	60	10	15	19	3 8	ಪ	83	15	15	œ	6	<u> </u>	<u>:</u>	_ - -			61	
Вау	98	16	#	16	12	" x o"	8	18	- 98	18	- -	:	_	61	-	61					
Benzie	15	61	63		1	oo '	9	9	GI.	31	61	:		$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	<u>:</u>	<u>:</u>			9	
Berrien	814	683	ਫ਼ :	တ္	93	•	75	288	188	4	56	6 .	6.	8	4	_		61		35	
Branch	88	202	0	, p	12	- C1	102	166	8	46	23	15	œ	1-	10	4	63	<u> </u>		:	
Calhoun	164	129	12	œ	0.	· •	4	127	6.	\$	15	9	6	ဗ	4	61	01	- 21			
Cass	149	181	20	4	13	_ 4	8	116	ಪ	16	18	10	20	:		-	··			C1	
Charlevoir	- ·	8	67	-			1-	-8					<u></u> :	_	-					:	

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		•	:		- 10			-	00	,					- 1	63		н		
		п		69	- •	69	-	F	00		-	п	04	,		63	,	64		
×	- *	00	- 4	4		4	H	- *	4	- 6	H	4	60	,	- 1	80	8	1	- 5	
:	1	60	-	00	1	9	1	7	00		00	60	1.		-	9	4	9	1	
:	1	00	1	98	00	0	-	9	H	1	69	00	œ	Î	1	20	10	Ħ	1	9
3.	•	4		1-	п	10	.03	H	6	н	00	t-	15	H	8	a	10	56	· ·	
;	:	33	:	10	7	20	;	4	13	*	4	14	18		10	11	12	22	:	
60		88	:	19	1	35	1	6	80	S	18	81	88	2	64	88	42	18	- 74	L
*	-	5	-	7	e 9	8	•	8	8	8	23	8	22	4	Ħ	8	118	212	:	
97	:	115	-	121	90	210	2	2	180	3	3	187	201	18	88	218	111	90		
18		69	1	E	6	108	81	62	96	46	80	8	85		20	86	90	194	1	
9	İ	6	Ť	1-	*	16	. :	00	24	20	T	10	-	1	*	•	88	17	i	=
0	1	11	1	4	- 1	88	60	18	11	×	18	00	8	н	64	18	10	178	-1	1
	$\frac{\cdot}{1}$	•	$\frac{\cdot}{1}$	94	i	13	:	•	ю	00	ю	•	18	, 69	F	12	18	83	$\frac{\cdot}{1}$	_
÷	$\dot{1}$	•	$\frac{\cdot}{1}$	12	$\frac{\cdot}{1}$	8	•	09	•	3	7	14	71	10	-	٥	98	8	i	_
0		119	1	118	Ħ	168	19	89	171	00	1-	121	149	9	36	196	150	204	1	
18	1	126	1	148	150	248	81	90	855	8	19	168	206	14	33	286	281	202	i	
Cheboygan	*Chippewa.	Clinton	*Delta.	Eston	Emmet	Genesee	Grand Traverse	Gratiot	Hillsdale	Houghton	Haron	Ingham	Ionia	Iosco.	Isabella	Jackson	Kalamazoo	Kent	*Кежеепа ж	-

* Not returned.

TABLE IV-CONTINUED.

	.82		Z	NATIVITY	4						AGES	N I S		Тилв	.					
COUNTIES.	No. Courts	American,	Foreign.	Amer. Males and For, Females.	For, Males and Am. Females,	Паклоча.	Under 20.	20 to 25.	.08 of dg	80 to 85.	80 to 40.	40 to 45.	'00 01 QF	20 01 00	55 to 60.	.00 to 65.	70 01 02	75 to 80.	.08 T9VO	Unknown,
Leelanaw	24	18	15	10	4		88	85	18	9	G\$	1	H		1	1	1		1	-1
Lenawee	325	248	20	11	68	17	186	256	95	45	88	11	=	00	01	9	09	- 1	1	-
Livingston	119	88	6	00	6	10	88	86	54	30	10	9	+-	00	20	4	09	-		-
*Mackinac.			-		1		-		-		1	i	1	+	+	-	- 1	1	1	1
Macomb	161	87	45	6	50	-	28	126	98	25	10	6	-	- 1	09	01	Q1	1	1	1
Manistee	89	88	\$	4	NG.	O9	25	R	888	30	1-	1	+	1	+	1	+	1	1	-
*Maniton	1	-	-		*****	-	-	1	-	-	1	i	i	1	-	1	+	+	1	1
Marquette	72	00	61	1	10	-	50	29	88	12	4	1	09	1	1	1	+	1	1	1
Мавоп	101	18	1-	01	*	H	11	15	14	9	4	-	-	03	1	1	+	1	1	-
Mecosta	7.4	40	1-	6	18	10	4	19	98	12	G1	-	×	-	1	-	1	1	-	1
Menominee	11	1	8	1	7	1	20	6	1-	Q4	H	1	+	- 1	-	- 1	1	-	-	1
Midland	22	15	20	04	9	H	18	20	6	10	-	O8	-	+	- 1	+	1	÷	1	-
Monroe	918	199	35	15	55	18	10	168	86	65	83	90	1-	O)	60	49	1	- 1	-	650
Montcalm	88	38	6	9	11	1-	150	60	8	1-	#	on	1	90	1	-	Qr.			

MARRIAGES.

Muskegon	153	29	19	11	125	1-	2	115	\$	36	4	9	-6	-		-		09	1	
Nеwaygo	22	84	4	9	t-	94	150	87	12	o.	4	63	-	-	-	H	H	1	1	1
Oakland	880	215	25	17	88	48	111	245	145	88	255	12	15	18	10	-		1	1	80
Oceana	3	41	12	00	œ	-	36	48	83	8	6	8	4	00	90	63		i	-	i
Ontonagon	15	1	10	1	00	-	1-	15	10	01	60	1	H	1	÷	1		1	1	1
Osceola	15	00	13	H	1		90	H	6	П	ч	1	1	1		1		i	1	-
Ottawa	177	26	80	14	21	9	19	111	8	56	58	10	1-	50	4	10	Ħ	67	1	20
Saginaw	182	19	12	11	56	80	5	148	102	88	17	F-	4		-	:		04	1	6
Sanilac	16	1-	9	14	10	-	48	89	28	16	00	10	90	4	QX			1	-	1
Shiawassee	129	68	10	1-	19	6	23	96	\$	12	10	6	1-	P	Q1	1	00	1	1	10
St. Clair	264	88	128	88	25	9	109	202	100	48	24	14	10	*	10	80	4	i	1	4
St. Joseph	289	245	18	ю	1-	14	66	261	116	88	21	1-	9	=	00	9	00	1	1	04
Tuscola	14	38	12	11	9	t-	40	45	88	120	90	04	-	1		1		1		
Van Buren	179	140	10	10	18	16	88	127	28	88	18	6	13	20	1-	00	-	-	1	4
Washtenaw	800	176	19	13	12	88	38	259	167	36	18	00	10	7	н	1	-	1	1	18
Wayne	106	277	325	68	188	80	252	629	84	47	88	14	88	6	10	8		+	1	121
Wexford	4	60				=	00	Ð	∞				1	1		911		:	-	-
Total	8,450	4,949	1,620	206	895	489	8,471	6,490	8,522	1,299	604	888	290	186	121	7	20	22	90	815

* Not returned.

TABLE V.—MARRIAGES.

Showing, by Counties, the respective ages of the Males and Females, and the total number Married under the age of Twenty-one years; and also, the whole number of persons Married in the State from January 1st to December 31st, 1869.

			AGE	40 S	Aces of Males	į				AGB	AGES OF FEMALES.	Fra	ALBS			Married ears.	Married sars.	and Fe-	Persons he State.
COUNTIES.	Twenty.	Vineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.	Thirteen.	Total Males	Total Females	Total Ma es males Marri 21 years,	Whole No. of
Alcona	н	- 4	1	:	:	:	;	1	1	64	1	-	1		3	1	8	4	10
Allegan	•	69	69	1	1	:	1	19	53	81	22	1	*		:	14	125	189	250
Alpena	-	:	- 1	3	:	:		01	20	- 00	*	69	-		:	-	16	11	\$
Antrim	-	-	:	:	:	:	:	-	7	-	-	**	-		1	64	11	18	88
Ваггу	80	H	H	:		:	:	-	6	22	11	12	es	7	:	10	8	2	280
Bay	+	:	:	:	;	:	,	00	3 16	•	0	-	- 1		1	+	\$	7	172
Benzie	:	1	:	:	:	:		-	69	-	64	:	-		:	-	9	•	2
Berrien	22	00	*	-	.;	1	:	82	88	9	87	22	63	н	T,	56	179	202	628
Branch	19	00	03	:	:	;	:	8	24	88	29	13	4		1	24	122	146	410
Calboun	*	*	60	:	;	;	1	10	113	00	1-	9	ç,		1	#	3	8	858

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DEATHS.

As time passes, the importance of exact knowledge seems to be better appreciated. Statistics, vital, social, and commercial, are demanded. Men now feel that they cannot be well convinced on these points except they see the figures, or at least know that the statements which they receive are made by those who have seen them. Questions of life and death come more and more to be considered as mathematical problems, requiring a basis of facts, from which to deduce correct conclusions; and the value of such conclusions is certainly very great compared with the common opinion formed, as it must be, by guess from uncertain data. Except by means of statistics. physicians cannot certainly know whether over a given disease they are gaining or losing control, whether even the general result of their efforts is better or worse than in times past. The common opinion may be that the race is degenerating,that the average age of man is decreasing,-but without statistics the truth or falsity of the opinion cannot be known. In no other way can be shown the influence on mortality of climate, sex, age, occupation, and different social states; and of various other conditions, which when known, may be avoided.

Absolute truth is not claimed for any statistics, but while it seems proper to bear in mind the limited time during which, in this State, the various officers have been gaining familiarity with their duties, and the chances for error in consequence of this, and of the returns being copied once before reaching this office, still the value of the materials for these statistics of deaths is in most particulars believed to be nearly equal to the best.

Probably not all deaths are yet recorded, and the per cent topopulation in all cases may therefore be slightly less than the truth, but it seems just as probable that the proportion of deaths from the various causes does not suffer much disturbance from this source. There seems no reason for concluding that the proportion of the sexes is far from right; and the same may be said of the ages of adults. No doubt, through careless or unskillful manipulation, the results of some of the more delicate changes and unfavorable forces escape us; but, in the aggregate, the combined results in many cases become soplainly apparent that the various mistakes of many men cannot obliterate them.

The extent of territory and variety of climate and soil within the limits of this State render it a particularly favorable one for gaining valuable and comprehensive knowledge of the influence of various conditions upon the rate and causes of mortality. There is here an opportunity to compare in the Upper and Lower Peninsulas, counties differing by four degrees of latitude, inland counties with those on the east and west lake shore, the two shores with each other, and, what is unusually fortunate, old counties with those just being settled.

There are good reasons for believing, and indeed there can be no question, that the geological formation of a locality has very great influence on the rate of mortality from certain causes. It seems especially evident, when we remember that upon this the character of the water supply generally depends. The examination of this latter subject by scientific men in this State has lately received a new impulse on account of the numerous mineral springs and wells that have been discovered. Doubtless the public will eventually receive the benefit of the great increase of knowledge on this subject which will result from the additional examination and thought which it is receiving. This knowledge itself will be of the greatest consequence, for many of the most useful agents are so, through their skillful and proper use.

DEATHS. 59

The whole number of deaths reported for 1869 was 9,145. Of this number 4,796 were males, 4,306 females, and 43 sex not given.

The proportion of the total number of deaths to population is very low, compared with other older States and cities, being only .775 per cent, or not quite eight per 1,000. One death to every 128 persons living in June, 1870.

The census used in computing the various percentages was taken in June, 1870, about six months after the close of the year in which the deaths occurred. Compared with the census of 1860 it shows an average yearly increase of about fortyfour thousand. Deducting thirty thousand-eight thousand more than one-half of the average yearly increase—and again computing the death-rate for the State, we find that it is then only .796 per cent. It is still less than eight per 1,000. After this deduction, and making due allowance for many deaths which may not have been reported, the death-rate is still quite low. The standard aimed at in England at present is 17 per 1,000, but the rate for all England is about 22. It should be remembered in this connection that the population there is much more dense than here. The death-rate in New York city in 1869 was 25.13 per 1,000, computed on an estimated population of 1,000,000. In Brooklyn it was 22.59 per 1,000, with an estimated population of 370,000. This mortality, however, is estimated by Sanitary Supt. Dr. Harris, to be "fully 15 per centum too great; and it should be regarded as the duty of sanitary government and civic improvement to reduce the rate to an average of from 17 to 20 per 1,000 yearly. The fact must be borne in mind, however, that the death-rate in New York will have certain peculiarities that arise from the vast preponderance of the poor and ignorant classes, which comprise fully 65 per centum of the total population." In Massachusetts the death-rate for 1868 was 2.02 per cent., or 20.2 per 1,000 inhabitants in 1865.

TABLE I.

Deaths by quarters of the year.

QUARTER ENDING	Deaths, 1869.	Per Cent to Total.
March	1,758	19.21
June	1,994	21.80
September	2,949	32.24
December	2,396	26.2
Unknown months	48	.5%
Total	9,145	100.0

This table shows that the least number of deaths occurred in the first quarter. In Massachusetts, and also in Rhode Island, the second quarter is the one in which the least number occur. There, June has usually the least mortality; our order of mortality, by months, for 1869, shows January to have had the least. The report of the Metropolitan Board of Health for 1869 also shows January to have been the most favorable to life in New York City, although the least mortality for a full quarter was during the one ending with December.

The greatest mortality was during the third quarter, as it is usually reported to be in other States.

The influence of season seems to have been greater than it usually is in the other States and cities with which our statistics have been compared. In New York City, in 1869, there was a difference between the mortality of highest and lowest quarters of only about six per cent. In Massachusetts, for a number of years previous, this difference has not been over about nine per cent. It will be seen from this table that there was here, in 1869, a difference of about thirteen per cent between the lowest quarter, ending with March, and the highest quarter, ending with September.

TABLE II.

Order of Total Mortality by Months.

MONTHS, 1869.	DEATHS.
1. September	1194
2. August	1068
3. October	874
4. December	836
5. March	761
6. April	712
7. July	687
8. November	686
9. May	652
10. June	630
11. February	561
12. January	
Average	100

The greatest number of deaths occurring in any one month was 1,194, in September. By referring to Table XVI, it will be seen that this was not mainly due to any one special disease, but to a general fatality in many; though more especially among the several diseases of the bowels and brain. There was also, in this month, an increased number of deaths of children teething, and also of deaths from old age. It seems to be a self-evident proposition, that any unfavorable, non-specific influence will fall with greatest effect upon the weakest of the race, for they will be least able to withstand it. We might therefore reasonably expect that an increased rate of mortality from a general cause—such, for instance, as extreme heat, or important changes in temperature, to which all are more or less subjected—would be accompanied by a greater proportion of deaths among the extremely old and young. If

we turn to the meteorological tables for 1869, we notice that in September the mean daily range of the thermometer was greater than in any other month in the year; and that next to this month was August, which also comes next in the order of mortality. This subject, however, may be more properly treated further on, when considering the causes of death.

TABLE III.

Number and Percentage of Deaths of Males and Females from all causes, by months (unknown sex excluded).

MONTHS.	Nu	MBER.	1	PERCENTAG	E.
MONTHS.	Males.	Females.	Males.	Females.	Excess of Males.
January	227	207	52.30	47.69	4.61
February	817	941	56.80	48.19	3,61
March	405	855	58.28	46.71	6.57
April	866	345	51.40	48.59	2.5
May	844	807	52.84	47.15	5.0
June	331	296	52.79	47.20	5.5
July	858	323	52.56	47.48	5.1
August	568	498	52.84	47.65	4.0
September	621	567	52.27	47.72	4,5
October	446	424	51.27	48.72	2.0
November	849	887	50.78	49.26	1.4
December	488	898	52.70	47.29	5.4
Unknown month	26	18	66.66	88,88	88.8
Year	4,796	4,306	52.69	47.30	5,8

From this table we learn that March, May, June, and December were unfavorable months for males, compared with females, in the order given; the excess per cent of deaths of males being above 5.39, which was the average. Perhaps, however, we should reverse the statement and say that those months were favorable for females, for the first named—March—was

DEATHS. 63

about an average one as regards total mortality, as will be seen by the table preceding. Next to March, the excess of males was greatest in May; it then decreased month by month until November, when the mortality of the sexes was nearly equal-In December it was increased to about the average excess, which was rapidly decreased in January and February; skipping March, in the month of April it was still below what it was in February, rendering March all the more prominent for its greatest difference in mortality of the sexes. Seeking a reason, we find by reference to the table of causes of death that the excess of fifty males in March was due to several immediate causes, whatever may have been the primary unfavorable condition or conditions. Pneumonia caused the death of twelve more males than females; other lung diseases, including typhoid pneumonia, caused twelve more. (In consumption there were eight more females than males, and although, taking the full year, the deaths of males from casualties exceeded those of females from childbirth by fifty-eight, in this month the casualties of males were fully equaled by deaths of females from the cause before mentioned.) From typhoid fever there was an excess of seven males; from scarlatina, of six; from heart disease, four; and from unknown causes, among which may be mentioned some reported "congestion," an excess of nineteen males. Here the great number of cases in which the cause of death was not reported render any accurate analysis for the ultimate cause of this difference difficult, not to say impossible, however plain it may appear that the males were subjected to some influence to which the females were not, or at least only in a less degree. At Lansing, which is near the center of the population, the thermometer went lower in March than in any other month in the year, reaching 2° below zero. The mean daily range was also high, 17.4°, the average for all the months being 15°.

If we exclude consumption, twenty-four out of the fifty greater number of deaths of males were caused by pneumonia and other lung diseases; and the specified causes to which the other deaths were referred were of such a nature that, all things considered, there seem to be good reasons for believing that the predisposing cause of the excess of deaths of males in March was their greater exposure to the inclemencies of the season, on account of their out-door duties.

TABLE IV.

Exhibiting the number and Sex, per cent to whole number of Deaths, and to total Population, and also percentage and difference between the Sexes of those who died at different periods of life from all causes, during the year 1869.

					le No.	Total Pop- f Counties 1870.	Perci (Unkn		THE S	
AGE.					of whole	000			Exc	KSS.
	Males.	Females.	Спкломп.	Total.	Per Cent of of Deaths.	Per Cent in ulation Returne	Males.	Females.	Males.	Females.
Under 5	2117	1763	85	8915	42.81	.881	54.56	45.48	9.18	
5 to 10	288	176	1	415	4.58	.085	57.48	42.51	4.97	
10 to 15	181	141		272	2.97	.028	48,16	51.88		3.6
15 to 90	168	206		874	4.08	.081	44.91	55.08		10.1
20 to 30	860	521		881	9.68	.074	40.86	59,18		18.2
80 to 40	289	880		619	6.76	.052	46.68	58.81		6.6
40 to 50	275	245		520	5.68	.044	52.88	47.11	5.77	
50 to 60	812	281		548	5.92	.046	57.47	42.52	14.95	
60 to 70	366	272		638	6.96	.054	57.86	42.68	14.78	
70 to 80	291	209		500	5.46	.042	58,20	41.80	17.40	
90 and over	148	121		264	2.88	.022	54.16	45.83	8.33	-
Unknown	106	91	7	204	2.12	.015	58,80	46.19	7.61	
Total	4,796	4,806	48	9,145	100.00	.775	52,69	47.80	5.89	

In this table two or three points immediately attract attention: The very great mortality under five years of age, the next greatest between twenty and thirty, and the excess of deaths of males and females at different ages. The first Report in this State showed that of the deaths from all causes "34.43 per cent were those of children under five years of age." In the second report this was increased to 41.27 per cent. The above table shows that in 1869 the proportion was still further increased, being 42.81 per cent.

Possibly the explanation of a part of this increase in last Report may be that the more thorough collection of the statistics resulted in obtaining the records of a greater proportion at this age, because the death of an adult generally creates a greater sensation and is more certain to be recorded than is the death of a child. On the first trial more deaths of children than of adults would, probably, for this reason escape collection, and a better execution of the law would consequently give a greater proportion under five years of age. Probably the increased proportion was also partly owing to the fact that the second report was for only nine months of the year, excluding the winter months, when the proportion of adults to those of children was doubtless greater than in summer. How much was due to this fact was intended, among other things, to be shown by a table exhibiting the number of persons who died at different periods of age in each month, but it has been found impossible to make up the table in time for this Report, as it would involve another compilation from the original returns.

In this third Report, which includes the full calendar year, the proportion is increased over that of the second by 1.54 per cent. Nearly this amount, however, is due to the addition of still-births this year, they being 1.41 per cent of the total number of deaths. We may still account for the difference between this full year and the first one without concluding that there was an increased proportional mortality among children,—by considering the difference due to a better col-

lection of records of that class of deaths, amounting to sufficient, since last report, to equal the reduction of proportion caused by including winter months. In other words, it does not necessarily follow from the statistics that there was, during the year 1869, an increased mortality of children under five years of age.

The per cent of deaths at the different ages to the population at those ages, or of each sex to the male and female population, cannot be given, as the census statistics have not yet been worked out sufficiently to furnish the data. As will be seen, the proportion of deaths under five to total population was .331 per cent, while the deaths at all ages were only .775 per cent of the population.

The whole number of deaths under five was 3,915. Among the many specified causes of death may be mentioned the following as the most prominent: Diarrhea, reported as the cause of 261 deaths; dysentery, of 187; cholera infantum, 108; bowel disease (kind not specified), 20. Pneumonia is charged with the death of 233; consumption, 111; croup, 94; lung disease, 56. Cephalitis caused the death of 146; convulsions, 58; brain diseases (not specified) 145. The other causes can be seen by reference to Table XVI, "Specified Causes of Death, Alphabetically Arranged." We have here a total of one thousand four hundred and nineteen deaths of children under five years of age, from prominent diseases affecting the alimentary canal, air passages, and nervous system.

That a large proportion of these deaths were due to insufficient and unsuitable clothing, and improper diet, will probably not be questioned by any who have given the subject much attention, although it seems plain that a majority of the people do not appreciate two very important facts in this connection. First, that human young are born into this cold world from a uniform temperature of about 100° F., and cannot be expected to withstand sudden changes, or a great degree of cold, as well as old settlers, and especially not when less

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warmly clothed. The second, that the young of all animals—human young included—are by nature supplied with animal food, and ought not, at first, to be expected to thrive on food composed mainly of starch, or other vegetable substance.

The two or three hundred deaths between the ages of twenty and thirty years, in excess of the number in either the ten years preceding or succeeding, are fully accounted for by reference to three causes, viz: consumption, typhoid fever, and childbirth; which respectively caused the death of three hundred and thirteen, ninety-six, and sixty persons aged as above stated. The total number of deaths of those within that period was eight hundred and eighty-one.

The average proportion of deaths of the sexes for the year was 5.39 per cent more males than females. Whether or not this corresponds with the proportion of male and female population, we have as yet no means of knowing. The different influence upon the sexes of the conditions connected with age is, however, well and strikingly shown by this table. It will be seen that there was more than an average excess of males under five—slightly less than the average between five and ten; this change was continued, and from ten to fifteen there were 3.67 per cent more females than males; it was increased until thirty, when it declined from thirty to forty, being 6.63 per cent more females than males. After forty there were more deaths of males than females, the difference being greatest during the period between the ages of seventy and eighty.

The most marked contrast of the sexes was between the ages of twenty and thirty, when there were one hundred and sixty-one or 18.27 per cent more deaths of females than males. This was mainly due to four causes, viz: consumption, child-birth, dropsy, and pneumonia; the excess from these causes being respectively eighty-seven, sixty, twenty, and fourteen. As, in a certain sense, an offset to deaths from childbirth, should be noticed that of the deaths from casualties there were twenty-four more males than females; leaving, after these have

been subtracted, an excess of one hundred and fifty-seven females during this period of life from the four above mentioned causes.

The following table is the same as the one in last Report, except that in this the sex is given by counties, months, and periods of age, instead of simply by counties for the year. It therefore shows the influence of the conditions connected with season and age upon the mortality of the sexes, as well as upon the total mortality in each county; and also the number of deaths of each sex during the year in every county from which returns have been received.

TABLE V-DEATHS.

Showing by Counties and Months the Number and Sex, and by Counties the Sex and Age, in periods of

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								Mo	MONTHS	H 8.											AGES						
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	Total	9145	486	561	191	712	652	630	189	1068	1194	874	989	988	48	8915	415	272	874	188	619	250	248	889	200	264	204
	Male	4196	252	317	405	366	844	331	828	268	621	446	849	488	98	2117	887	181	168	860	688	375	813	866	291	148	106
State	Female.	4306	202	241	355	845	307	296	853	498	199	424	387	868	13	18 1768	176	141	906	221	880	245	281	272	506	121	91
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(c) No returns.

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	Male	114	10	00	10	15	14	14	12	20	88	21	80	16	1	58	11	7	1	20	11	15	11	17	10		9
Kent	Female.	160	4	0	=	13	13	=	=	19	20	16	13	21	1	19	15	-	60	16	13	6	18		6 13		10
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(a) No returns.

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COUNTIES.	SEX.	1899.	January.	February.	Матер.	April.	May.	June.	July.	Auguat.	September	October.	Мочетрет.	Песетрет.	Unknown.	5 to 10.	10 to 15.	15 to 20.	.08 ot 02	.04 ot 08	40 to 80.	.09 to 60.	.07 of 08	.08 01 07	19vo bna 08	Ппкпомп.
Lapeer	Total Male Female. Unk'n	125 72 72 1	r- 4 80	C 60 -5	6 6	∞ xo ∞	18 9 7	01 4 9	Q 10 -4	11 9 9 ;	1 4 6 18	8 6	16	6 8 1-	4 1 8	17 17 11 11 11 11 11 11 11 11 11 11 11 1	∞ H 4 i	F 69 70	155	10 4	F 88 4		4 6 2	10 00 04	4 1 8	
Leelanaw	Total Male	4 8 4	8 8 11	1 20 80	69 69		69 69			<u> </u>	0 9 4	2 4 64	- R - R	6 4 6	61 11	18 82	8 7 7			8 67 77	- 1 12	4 69 69	8 61 11	8 63 11		T
Lenawee	Total Male	274 158 121	×2 64 00	4	2 2 1	88 11	18 7- 0	4	16	- 38 16 16	8 11 82	10 10 110	8 11	15 15	- H H 80	25 25 25 1	14 17 8 9 6 8	9 5 10	29 14 15	8 4	12 5	18 19 10	20 20	8 15 8	11 4 7	æ % 4
Livingston	Total Male Female.	181 78 58	æ 84 4	× 4 H	8 4	₩ ₩ ₩	<u>r</u> → 4 ⊗	æ 4 %	7	12 2	11 8 8	2 2 2	∞ x ∞	6 9 8	4 2 1	27 16	4 4	4 6 6	8 8	11 2 6	9 8 8	12 8	3 10 28	18	F 8 4	:

Mackinac (a).						:	-				$\overline{}$		-		=	-:					<u>:</u>		<u> </u>	<u> </u>	<u> </u>		
Macomb	Total	106	7.	21 15	71 4	12	2 =	14	16	08 °C	22 81	8 8	16	28 10 10 10 10 10 10 10 10 10 10 10 10 10	11	92	116	9 ::	11 11 8	18 1	19 18	18 15	12 2 7	21 19 10 12	·	17 01	
	Female.	128	-	9	18	12	18	6	11	11	11	10	6	18	\equiv	3	2	9	8	10	15	8	2	11	-		•
	Total	48	2	4	67	4	9	63	67	9	1-	4	63	-	=	81	- 80	1		9							
Manistee	Male	প্ত প্ত	. 4	8 1		8 =	01 4	64		4 %	eo 4	8 H	- -	* **	TT	7 1	27 □	<u> </u>		8 8	<u>:</u>	- 69			<u>: :</u>		· -
Maniton (a)											1	十	\vdash	+	$\mid \stackrel{\cdot}{\mathbb{T}} \mid$	$\left \stackrel{\cdot}{\parallel} \right $	$\mid \stackrel{\cdot}{+} \mid$	-	-	<u> </u>	<u> </u>	<u> </u>		<u> -:</u>	-	<u> </u>	1 :
	Total	181	63	- 26	15	14	•	10	11	-01	18	14	-6	16	-	- 88	- 2	-	-8	- 2		8	61			_	, ∞
Marquette		8 1		61 6	00 k	t- 1	.co .c	∞ 0	∞ ;	× ×	œ ç	\$	٠ ۵			98 9	~					63 7	:	-			ea .
	(Total	\$ \$	7	•	- 4	- 4		4	4 -	· ×	2 20	0 01	* -			- P	# 03	, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	_		8 8		- 2	- 67	_ _		-, -
Mason	Male	83		1	4	-	69	4		61	8	-	-63	*		6				4	- 63						-
	Female.	13		-	-	4			:	_	63			<u> </u>			-			=				-			,
	Total	42	8	-		-	4	9	8	•	*	10	-9	4:	-	16	61	4		-9			- 8	- 67	- 8	- 23	i :
Mecosts	Male	83	63	1	-	-	69	80	:	61	8	4	80	:	=	- ===				64	-				:	<u> </u>	•
_	Female.	8	_	=			61	80	61	4	Ŧ	=	8	- 63	=	80	-61			-				- 63		- 61	,

a) No returne.

TABLE V-CONTINUED.

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70 to 80.			-	7	- 24	14	9	-
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.09 to 60.	1		I	$\overline{11}$	19	6	9	-
40 to 20.		1 :	8	03 74	15	00	ţ	1
.0≱ o1 08			-	03 KD	14	80	9	-
.08 ot 02	01	69	64		11	80	۵	i
15 to 20.	l		-	7 7	9	4	9	-
10 to 12.			8	69 77	} ~	•	4	1
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December.			-	- :	19	9	00	=
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October.	- Q	4 !	-	-	8	15	15	-
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May.			-	67	22	=	13	
April.	1 ———		-	- 63	19	0	9	1
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g								_
NTIL	mine			nd		9		
СОД	Meno			Midla		M on		
	January. Kebruary. March. April. June. June. July. August. September. Getober. Movember. December. To to 30. 20 to 50.		Hebruary. Hebrands. Hebruary. Hebr	Table 1	Total 1 20	Total 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Male 125	### Permale 1989. Permale 1999. 1989.

	[Total	8	04	00	9	00	9	60	10	=	11	æ	E-	-	-	15	60	=	-	18	-	8	_	01	01	8	-
Montcalm	Male	48	04	10	00	9	00	00	*	4	9	+	4	-	1	12	-	:	69	20	_	-	-		0		æ
	Female.	81	1	60	80	O.	00	1	*	1-	00	7	60	60	-	10	04	-	59	200	80	04	_	10	+	+	
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	Male	73	00	1-	4	10	80	00	0	00	7	1-	-	4	:	20	8		-	04	-	-	_	9	4	7	
Muskegon	Female.	19	1	04	9	-	0	0	7	=	16	0	00	10	-	88	0	-	-	91	-		9			-	
	Unk'n	-	1	1	1	1	1	1	-	Ť	Ť		÷	-	1	-	+	-	-	-	-	1	-	4	-	-	10
	(Total	51	20	-	1-	4	7	8	-	0	0	-	0	-	-	87	- 24	-	794	24	-	_	_	26	- 39	26	
Newaygo	Male	85	4	10	*	04	4	09	7	-	4	00	09	80	1	22	-	:	÷	-	-	_	-	_	28	-	_
	Female.	66	н	04	80	04	1	н	1	*	Q	+	8	1	1	59	**	-	58	-	-	7	_	-	_	-	-
	Total	241	11	18	-83	19	22	12	8	23	=	- 8	18	- 54	- 54	3	=======================================	=	-	=		=	-	-	<u> </u>	=	
Oakland	Male	186	œ	œ	2	•	2	7	18	11	-	5	30	12	_	æ	=	-	-	=	-	_	-	*	-	=	-
	Female.	105	00	ν.	15	2	*	۲	۲	œ	9	=	®	•		8	59	04	-	*	59	-	_	=	_	æ	500
	Total	2	8	4	12	61	61	•	61	2	2 2	-5	-	-		\$	-	-	-	-	-	_	_				
Oceana	Male	2	80	60	- 60	_		20	_	ec	9	69	ec	- 000	:	Z	-	;	89	_ -	59	_	- 29	-		<u> </u>	:
	Female.	22	1	-	4	_	-	-	-	۴	*	60	-	÷		-	81	_	*	64	<u>:</u>	-		-	<u> </u>		-
	[Total	8	-	61	•	-	+	-	64	-	-	-	- 20	-	-	=	- 59	- 54	<u> </u>	-		-	-	29			. =
Ontonagon	Male	8	i	1	-	60	•	-		60		6,	- 00	- :		==	-=-		<u>:</u>		:		- 29	<u>:</u>		<u>:</u>	:
	Pemale.	25	-	*	**	-	_;	-	-	$\frac{\cdot}{\cdot}$	-;	*				•	=	<u>-</u>	- ;		- ;		_		<u>:</u>	- ;	-

TABLE V-CONTINUED.

								Мои	HIN	. 83										•	AGE	10					
COUNTIES.	SS M M M	1869.	January	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Unknown.	Under 5.	\$ to 10.	10 to 16.	15 to 20.	20 to 80.	.04 01 08	40 10 20.	.09 01 03	60 to 70.	70 to 80.	1970 Бпа 08	Unknown.
Osceola	Total Male	10 4				7 7	∞ ∞				8 1 1		= =			6 69 4				- 1 1 5		: : :		: : :			
Ottawa	Total Male	181	20 44 11	1- 4 8	26 14 12	& & **	11 6 2	\$1 H 4	12	3 8 5	2 2 2	22 11 81	16	88 29	4 4	# 2 Z	a & a		6 64 4	12 II 81	11 10 12	- 2 8 2 2	- o o	- 2 - 2 - 2	<u>61</u> & &		4 8 -
Saginaw	Total Male Female. Unk'u	229 210 210	26 18 8	3 2 2 :	19 19	18 14	16	2 2 2 5	13	2 2 2	85 35 18 95	31 31	8 1 1 1	35 14 20 1	1111	249 181 115 8	8 2 1 1	9 0 0	8 - 9	2 H 2	12 12 23	2 2 0	20 40	0 0 7	0 1- 8 ;	× + +	S 4 1- 01
Sanilac	Male	8 2 2	e 4 9	C9 C9		00 00	4 63 63	0 0	G 40 00	0 0	18 8 19	2 10 10	a 4 4	00 04		80 16 14	4 80 1		10 01 00	XO 60 64	00 00 KD	10 to 01	00 H 01	C1	∞ → ∞	00 H H	111

	Total	154	18	91	•	6	-	81	18	18	88	==	81	81	=	32	*	- C	- 1	18 11	20	2	3	2	-	=
9110	Male	22	œ	20	×O	*	8	20	۲-	•	9	-	20	;	-	8	_	GR	- 00	<u>~</u>	80	- 6	1-	•	80	۳-
Sulawasses	Female.	28	40	×	-	10	*	-	10	6	-81	2	90	:	-	· 3	09	-		17	6	•	•	•	•	œ
	Unk'n		-	-		-	i	$\dot{\parallel}$	$\frac{\cdot}{1}$	<u> </u>	-	$\stackrel{\cdot}{\parallel}$	$\frac{\cdot}{\cdot}$	-	=	$\frac{\cdot}{1}$	<u>:</u>	_ <u>:</u> -	<u>.</u>	<u> </u>			:		;	-
	Total	888	. 8	18	-83	-8	28	18	18	-84	- 88	22	8	- 83	8	189	11	-	-11 8	28	8	2	-1	-	=	; ~
; 5	Male	171	18	Ξ	16	13	4	0.	91	83	16	16	2	18	<u>~</u>	88	00	•		12 19	1	11	*	*	-	œ
St. Clark	Female.	121	9	2	8	00	Ξ	*	6 0	19	8	œ	2	9	-	28	0.	•	- 64 - 65	93 10	•	•	œ	œ	38	:
	Unk'n		-	i	Ť		$\dot{\parallel}$		$\frac{\cdot}{1}$		 -	$\frac{\cdot}{\parallel}$	<u>:</u>		-	:	<u>:</u> ;	<u>:</u>	_ <u>i</u> _	<u> </u>				÷	- :	į
	Total	8	ន	1 22	82	-83	- w	82	=	11	83	-24	-	8	=	2	-	- 80	-8	1 15	9	8	5	=	=	•
St. Joseph	Male	93	4	=	9	=	4	20	6	9	81	=	4	60	=	<u>:</u>	:	C9		~		20	30	1-	-	-
	Female.	108	9	9	12	41	4	œ	0)	-	16	10	61	-:-	-	- 88	ю.			12 10	-	25	a	1	•	œ
	Total	8	- 8	۵	1-	8	9		18	11	=	-00				2	•	-	-	27	æ	0	7	1	64	ء إ
Tuscola	Male	#	63	*	4	8	· 🔅	20	•	7-	20	∞	•	63	-	19		_			æ	œ	_	•	94	4
-	Female.	28	=		œ	•	1 0	61	1-	01	•	*	69	; ca	-	10	œ	ec	- -		10	2	æ		 æ	-
	Total	181	-	41	6	=	=======================================	-	2	- ₈₈ -	-23	-8	- 22	19	-64	8	- 2	-	- x	16 18	12	18	=	=	;	. 🕶
Van Buren	Male	100	ĸ	00	•	4	9	•	1-	18	23	12	•	9	_	7	20	-	80	-	2	1 -	Œ	=	-1-	æ
	[Female.]	82		•	80	1-	7	80	80	16;	13		60	-	=	38	- o	_		_		_	•	œ		-

TABLE V-CONTINUED.

23 12 13 1869. 24 0 4 0 1869. 25 4 0 4 0 1869.			Ħ	MONTHS	я в.			•							7	AGEB	m					
Total 249 6 1 Male 129 4 Female. 120 2	March.	May.	June.	·Luly.	August.	September	October.	Мочешрет	December.	Опкпомп.	U nder 5.	.01 o1 8	10 to 15.	15 to 20.	.08 ot 02	.04 01 08	40 to 20.	09 01 09	.07 03 08	.08 ot 07	19vo bna 08	Ппкпомп.
Male 129 4 Female. 120 2	15 14 9	22 20	0 18	14	80	80	84	61	50	T)	19	Ħ	- 60	01	22	67	83	15	11	17	Ħ	60
120 2	6 4	12 13	11 81	9	19	11	15	11	6	GR.	22	19	69	00	17	13	00	00	15	16	9	н
1311 58	9 10 1	10	1-	SO	=	13	61	11	Ħ	59	80	9	-	14	133	1+	15	t+	0	=	10	69
-	13 100	16	188	120	189	158	88	112	187	19	669	4	-18	40	06	3	65	-33	19	25	88	65
Male 720 28	48 51	48 4	19 95	53	92	95	45	88	88	10	872	88	18	11	98	20	45	9	#	32	15	58
wayne Female. 587 80 86	80 49	48 8	82 87	55	16	68	48	49	24	10	825	16	13	83	3	84	20	22	88	11	13	24
Unk'n 4		1	1	1	1	1	-1		1	4	C3	Ť	Ť	Ť	-	Ť	t	1	i	Ť	1	01
Total 5		- 61				61			-		- 00	+	$\frac{1}{1}$	-	- 67	-	-		-	-		
Wexford Male 8	1		<u> </u>	1	-	63	-	i	i		8	+	i	<u> </u>	-	-	-	:		- 	i	į
[Female. 2	-							-						-	-	_	_	-	-		$\frac{-}{1}$	ŧ

TABLE VI.

Nativity, by Sex and Counties, of those who Died during the year 1869.

	A	MER	ICA	N.	1	FORE	IGN		τ	NKN	OW	N.		Tor	ALS	
COUNTIES.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Grand
State	3850	3629	88	7517	744	581		1275	202	146	5	858	4796	4306	48	9143
Alcona	1			1						.,			1			1
Allegan	81	82	2	165	17	15		82	7	1		8	105	98	2	200
Alpena	12	15		27	9	1		8					14	16		80
Antrim	5	4		9	1			1				***	6	4	-	10
Barry	74	65		189	7	5		12	1	1		9	82	71		158
Bay	51	31		82	19	6		25	6	8		9	76	40		116
Benzie	6	12		18	1			1		1		1	7	18		90
Berrien	84	107		191	10	6	1.2	16	1 8	5		8	97	118		215
Branch	78	96		174	4	8		7					82	99		181
Calhoun	118	109	7	229	12	11		23	8	11		19	188	181	7	271
Cass	95	89		184	5	8		18	2	1		8	102	98		200
Charlevoix	1	4		5	2	8		5					8	7		10
Cheboygan	2	5		7	1			1	1			1	4	5		9
Chippewa (a)													,		-	
Clinton	72	83		155	9	5		14	2			2	88	88		171
Delta (a)																
Eaton	88	92	1	181	4			4	6	2		8	98	94	1	198
Emmet	16	22		88	1			1	1			1	18	22		40
Genesee	101	90	2	198	7	14		21	9	4	1	14	117	108	3	228
Grand Traverse	20	16		86	1	3		4	1	1		2	22	20		42
Gratiot	88	88	4	75	8	2		5	1			1	49	85	4	81
Hillsdale	110	92		202	4	8		7	9	4		13	128	99		999
Houghton	54	49		108	14	6		20					68	55		128
Huron	11	18		24	12	15		27					28	28		51
Ingham	100	111		211	7	9		16	9	2		4	109	122		231

⁽a) Not returned.

TABLE VI-Continued.

	A	MERI	CA	N.	I	ORE	IGN	•	U	NKN	ow:	N.		Тотл	LB.	
COUNTIES.	Males.	Females.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Female.	Unk'n.	Total.	Male.	Fenale.	Unk'n.	Grand Total
Ionia	100	97	1	198	14	4		18	9	10		19	128	111	1	285
Iosco	10	6		16	6	2		8		1		1	16	9	'	25
Isabella	15	11		26	1	1		2		·			16	12		28
Jackson	98	99		197	10	5		15	2	8		5	110	107		217
Kalamazoo	125	94	5	224	18	17		85	9	8	1	18	152	119	6	277
Kent	182	186	2	270	85	21		- 56	7	8		10	174	160	2	886
Keweenaw (a)																
Lapeer	44	64	1	109	6	7		18	2	1		8	52	72	1	125
Leelanaw	27	14		41	8			8	ļ				80	14		44
Lenawee	188	107		245	11	10		21	4	4		8	158	121		274
Livingston	65	52	,	117	- 5	6		11	8			8	78	5 8		181
Mackinac (a)							i									•
Macomb	81	112		198	24	16		40	1	 		1	106	128		284
Manistee	20	18		88	5	4		9		1		1	25	28		48
Manitou (a)																
Marquette	85	50		85	21	25		46					56	75		181
Mason	20	10		80	1	2		8	1			1	22	12		84
Mecosta	16	15		81	6	8		9		2		2	22	20		42
Menominee	8	5	1	9		1		1					8	6	1	10
Midland	15	7		22	2			2		1		1	17	8		25
Monroe	104	101	8	208	16	18		29	5			5	125	114	8	243
Montcalm	44	81		75	4	5		9		1		1	48	87		83
Muskegon	59	52	1	112	12	9		21	2	8		5	78	64	1	188
Newaygo	82	22		54	8			8					85	22		57
Oakland	105	91		196	27	12		89	4	2		6	186	105	ļ	241
Oceana	40	25		65	8	1		4		1		1	48	27	 	70
Ontonagon	16	9		25	4	4		8					20	18		88
Osceola	8	5		8	1			1		1		1	4	•	۱.	10
Ottawa	94	78		172	84	24		58	8	1		4	181	108		284
Saginaw	168	168	4	885	56	42		98	5	5	1	11	229	210	1	444
Sanilac	28	19		42	11	15		26					84	84	١.	. 68
Shiawassee	57	70	1	128	11	1 7	١	18	7	1	١	8	75	78	3 :	154

⁽a) Not returned.

T.	BL	ΕV	<u>П</u> —	Co	<u> </u>	TER

	4	-	STA.	K .	3	**************************************	***		τ	XXX	ů.	<i>د</i>	_	Tut.	als.	
COUNTIES.	Male.	Female.	Unk'n,	Total.	Main,	Female,	Cink'n.	Total	Male,	Formalu,	Unk'n.	Total.	Mulu,	Female,	l'nk'n,	Total.
St. Clair	115	*	-	215	#	s :	-	— ;•	4		-	4	והו	:3:	ı	200
St. Joseph	59	92		122	12	4		16	3	:		12	\$7	146		***
Tuscola	42	46		56	6	4		10	1			. 1	49	×	٠.	**
Van Buren	95	6.		100	:	3		10	•	. §	٠	17	100	75		187
Washtensw	*	100	٠	3 7.	**	10		\$5	6	1		7	139	130	٠	14
Wayne	514	435	2	951	152	107		239	54	43	. 3	161	734	367	4	1311
Wexford	3	1		4	••••	1	 ! .	1					3	5		2

This table is the same as the one in last Report, except that, instead of the total American, Foreign, and Unknown in each county, the number of each sex and total of each nativity for the county is given. It still lacks percentage to native and foreign population. This can probably be given next year.

Table VII, of deaths of persons belonging to races other than white, will also be more valuable when the proportion of Negro and Indian population is known, and the percentage of deaths to the same is given.

TABLE VII.

Deaths of Persons belonging to Races other than White.

Number and Sex in each County.

	A	PRICA	N.	1:	NDIA	N.
COUNTIES.	Males.	Females.	Totals.	Males.	Females.	Totals,
State	40	44	84	44	89	88
Alcona		44	24			
Allegan		1	1			
Alpena			44	1		1
Antrim	-	12	1			
Barry	0					
Bay				2	3	5
Benzie	-	1	1			
Berrien	1	1	2			
Branch	**					
Calhoun	1	2	3	1		1
Cass	10	15	25	4.		
Charlevoix				1	4.	
Cheboygan				1	1	9
* Chippewa						
Clinton		1	1	2.0		
* Delta						
Eaton			-			
Emmet				18	21	39
Genesee						
Grand Traverse	0		12	2	1	
Gratiot						
Hillsdale						
Houghton				5	7	12
Huron		-	-			

^{*} Not returned.

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TABLE VII-CONTINUED.

	A	FRICA	N.	I	NDIA	N.
COUNTIES.	Males.	Females.	Totals.	Males.	Females.	Totala.
		8	8		44	
			-			
		-			**	
	4		4			
zoo	3	8	6			
	1	2	3			
enaw						
.w		1	1	2		2
			144			
ton						
nac						
b						
90,						
ou						
tte						
				5		5
Y						
inee	**				12	
1						
	1	1	9			525
lm						
on	1		1			
go				1		1
d	2		2	4.		
		1.		4	7	11
gon				1		1

Not returned.

TABLE VII—CONTINUED.

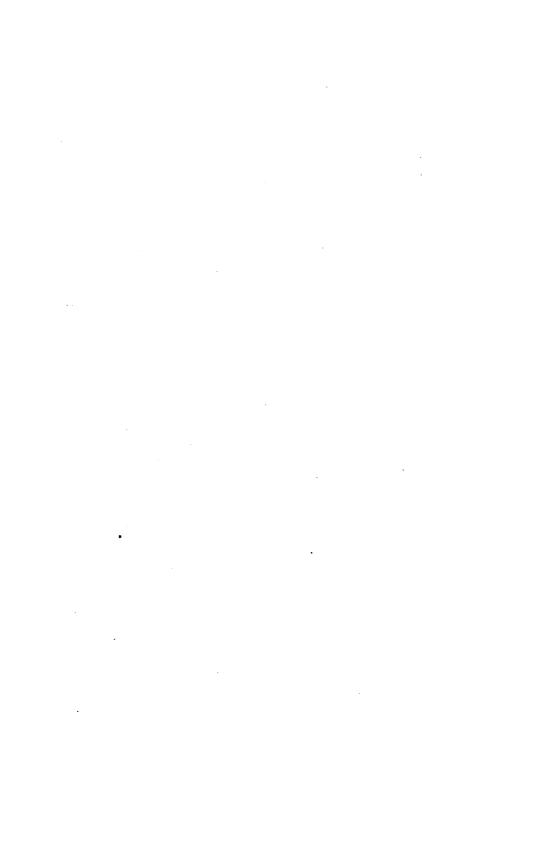
	A:	FRICA	N.	I	NDIA	N.
COUNTIES	Males.	Females.	Totals.	Males.	Females.	Totals.
Ottawa	2	2	4			
Saginaw	2	2	4			
Sanilac						
Shiawassee		1	1			
St. Clair						
St. Joseph						
Tuscola						
Van Buren	1	4	5	8		8
Washtenaw	4	8	7			
Wayne	7	1	8			
Wexford						

Deaths of those Aged One Hundred Years and over, 1869.

2				-		Age.		,	PLACE OF	PLACE OF DEATH.	DATE OF DEATH.		CAURE OF
NAME.	Z.	NEX COLOR.		Vidow'd.		Years Mo's. Days.	Days .	Occupation.	Town.	Town. County. Mouth. Day	Mouth.	Day	Вклти.
Annie N. Gregory Fe., White., Widow New York 110 4 Not stated Pulaski Jackson., April 20 Old Age.	Fe	White	Widow	New York	110	+		Not stated	Pulaski	Јасквоп	April	ន	Old Age.
Jedediah Osburu M White Widower, Unknown 101	K	White	Widower.	Unknown	101	9	10	16 Not stated Wyoming Kent August 25 Bee Sting	Wyoming	Kent	Лидият.	22	Bee Stlug
Agnes Scott	Fe.	Colored	Widow	North Carolina	110	7	:	Fe., Colored Widow North Carolina 110 4 House-keeper Porter Carr. March 17 Old Age.	Porter	Сакя.	March	11	Old Age.
William Waushy M Colored Married Ohio 112 Not stated Detroit Wayne June 16 Old Ago.	М	Colored	Married .	Оћіо	112	:	;	Not stated	Detroit	Wayne	June	16	Old Age.

The age of parents and children would be valuable information, as showing the influence of parental It is interesting to know all the facts possible of these ancient mariners on the sea of life, with a view of learning how and why they have weathered the storms for so long a period.

The age attained by three of the above is remarkable. It is believed that statistics of States or cities, with an equal population, seldom show as many at such an advanced age, or include even one who has reached the age of one hundred and ten years.



CAUSES OF DEATH.

Prominent among the conditions of life and the causes of ath, are the influences of climate and season of the year. n effort was made to secure a meteorological record for the ar 1869 from each sanitary district of the State, but the folwing, from two places, were all that were obtained. The resests were not entirely without good results, inasmuch as me observers have promised to furnish a record in future. me additional data are required for purposes of study in is connection, and, in order to supply all that is wanted, servers must be found in several parts of the State who will ve special attention to such matters as bear directly, with eatest force, upon the health and lives of the people.

Tables IX and X were compiled in this office, from observaons made at the Agricultural College, near Lansing, by Prof. . C. Kedzie, published in the Report of the State Board of griculture for 1869.

Table X contains results of observations made at Monroe, Miss F. E. Whelpley.

TABLE IX.

Showing the Mean Altitude and Range of the Barometer, the Prevailing Winds, the mean relative Humidity, Percentage of Cloudiness of the sky, the number of Days of Rain or Snow, and the Quantity of Rain or melted Snow for each month of the year 1869, at Lansing, Mich.

	reduced to	er.	D	AY		7		EVAL	LIN	G	or percent-	the Sky.	Rain and	Snow in
MONTHS.	Barometer-Mean 1 82° Fahrenhiet.	Range of Barometer.	North.	Northeast.	East.	Southeast.	South.	Southwest,	West.	Northwest.	Relative Humidity or percentage of Saturation—Average	Mean Cloudiness of	Number of Days of Snow.	Rain and Melted inches.
January	28.580	1.428	1	2	8			18	11	1	96	66	7	.87
February	28,839	1,488		7	1	2	3	8	6	1	95	71	10	9.900
March	28.984	.717		5	1	4	1	12	5	3	82	67	11	1,658
April	28.827	1.148	1	1	4	3		9	9	8	67	61	13	8,423
May	28.749	.787		5	4	3	1	12	5	1	70	70	14	2,054
June	28.856	.929		1		6		14	8	1	80	65	11	4.896
July	28.844	.624	1	1		8	1	17	8		79	53	10	5.768
August	28.968	.575	1	7	3	2		10	5	2	75	48	7	4.836
September	29.020	.751	8	8	2	1	2	16	2		88	41	6	1,430
October	28,920	.642	1					14	14	1	86	68	11	1.723
November	28.868	1.402		1	5	3	4,	4	13	8	86	77	12	1.92
December	28,999	1,213		2	2	2	1	14	9	1	82	78	11	2,108
Whole Year	28,887	1.660	8	35	25	29	9	148	95	15	81	68	128	88.158

TABLE X.

ing the Mean Temperature, the Highest and Lowest Temature, the Monthly Range, the Mean Daily Range, and Greatest Change in Twenty-four Hours, for each month the year 1869, at Lansing, Michigan.

	1	HERM	METE	R.	Mean	GREATEST IN 24 F	
ONTHS.	Mean.	Highest	Lowcet.	Range.	Daily Range.	Degrees of rise or fall of Ther- mometer.	Day of Month
7	29.85°	50°	4°	46°	12.4°	R. 88.*	16th
r y	26.66°	60°	-4°	64°	17.1°	R. 48.°	5th
	27.60°	62°	-2°	64°	17.4°	R. 84.*	18th
	45.70°	78°	20°	58°	16.0°	R. 29.*	22d
	56.02°	S8*	41°	42°	14.0°	F. 25.	9th
	61.45*	83°	41°	89°	15.8°	F. 26.	16th
	70.85°	89*	54°	85*	15.2°	R. 27.°	220
	70.58*	92°	46*	46°	18.0°	F. 80.*	218
oer.:	68.45°	89*	88*	51°	19.8°	R. 85.*	16
	40.80*	74°	18°	56°	12.4°	R. 27.	6t)
er	82.05°	71*	4*	67°	11.8*	R. 40.*	24t1
er	28.16°	45°	0°	45°	12.1*	R. 87.*	26th
 Year	46.27*	92°	-4°	96°	15.0°	R. 48.*	Feb. 5th

TABLE XI.

Showing the Mean Temperature, the Highest and Lowest Temperature, the Monthly Range, the Mean Daily Range, and the Greatest Change in Twenty-four Hours; and also the Prevailing Winds, Relative Humidity, Rain and Melted Snow, in inches, for each month of the year 1869, at Monroe, Michigan:

	The	ermo	mete	r.	Daily Range.	Greatest Change in 24 hours.		Vinds.	Humidity maxi'm.)	Melted inches.
MONTHS.	Mean.	Highest.	Lowest.	Range.	M'n Daily	Degr's of rise or fall of thermom- eter.	Day of Month.	Prevall'g Winds.	Relative H (unity as n	Rain and N
January	83.80°	54°	12°	42°	11.09°	28° R.	10th.	N. and W.	.9	.50
February	80.99°	69*	5°	64"	11.57	27° F.	18th.	S. and W.	.55	8.25
March	29, 48°	60°	0	60°	11.06°	28° R.	28d.	S, and W.	.825	2.25
April	46.59°	74°	28*	46°	10.86°	18° F.	28th.	w.	.85	2.60
Мау	57.45°	86°	43°	48*	9.26°	28° F.	26th.	N. and W.	.625	5.61
June	65.95°	88°	46°	42°	11. 27°	20° R.	7th.	S. and W.	.6	5.45
July	78.07°	90°	60°	80°	9.87°	22° F.	22d.	N. and W.	.65	5,90
August	70.05°	90°	42"	48°	12. 28°	24° F.	25th.	N. and W.	.125	1.45
September	58, 55°	86°	82°	54°	18. 67°	26° R. & F	4th.	S, and W.	.225	2,67
October	41.98°	.66°	21°	45°	11.90°	24° F.	9th.	S. and W.	.05	.81
November	38.17°	68°	10°	58°	8.80°	82° R,	8d.	S.	.125	1.16
December	81.05°	48°	16°	32°	9.00°	18*	22d.	E. and S.	.125	1.89
Whole Year	48. 04°	90°	0	90°	10. 84°	82* R.	Nov.8d.		.829	82.47

There seems to be nothing very remarkable about the meteorological records in this State during the year 1869, and no obvious connection between the facts set forth in these tables and the death-rate. There can be no question, however, but that, if sufficient time could be given to the study of these conditions in connection with the death-rate, the result would be the demonstration of important relations between them. DEATHS. 95

Man's "struggle for existence" is largely with the elements. As Mr. J. Disturnell has pointed out, the progress of the human race has been almost completely controlled by climate. Only within certain limits has man been able to live and progress, the obstacles outside those limits heretofore proving too great. The most favorable climate has been shown to be where the mean temperature for the year is about 48° to 52° Fahrenheit; and along this isothermal line are a great majority of the most prosperous cities and countries. Human life and progress is there subject to the most favorable circumstances. The advance of knowledge, like this we are here seeking, will enable man to overcome many unfavorable conditions, to make progress in climates in which it has been difficult, and will tend greatly to increase the chances of life in the most favorable locations.

It will be seen from the first column of Table IX, giving mean height of barometer for each month, that the barometer was highest in September, corresponding with the greatest mortality; and was, in fact, highest in the five months in which the greatest number of deaths occurred, although not descending in precisely the same order as the mortality by months. The comparison can be made by referring to Table II in connection with Table IX.

Table IX also shows that the total rain-fall for 1869 was 33.153 inches,—about two and one-half inches more than the average at Lansing for a number of years past. The average percentage of saturation, or humidity of the atmosphere, was 81. Average percentage of cloudiness of the sky, 63. Number of days on which it either rained or snowed, 123. The air appears to have been more moist at Lansing than at Monroe, and the rain-fall greater. This last is not in accordance with the rule that the rain-fall becomes less with the increase of the latitude, as Lansing is about one degree further north than Monroe. The quantity recorded at Monroe might perhaps have been slightly increased if the figures had been carried

out another point. In order to compare the humidity of the atmosphere in Table XI with the same column in Table IX, it must be multiplied by 100, as in the one case unity is taken as maximum, and in the other is given the percentage of saturation.

At Monroe the monthly mean temperature was highest in the months of July, August, June, September, May, etc., in above order. The monthly mean temperature at Lansing was highest in August, next highest in July, and third in September. It will be seen by Table II that the order of greatest mortality was September, August, October, etc. In July the mortality was below the average, and at the same time the temperature was higher than in September or October, and at Monroe was higher than in any other month. It is readily seen that the greatest mortality was not coincident with the highest temperature, but occurred two or three months after that period. This grouping of facts shows, perhaps, the accumulated effects of extreme heat, and, possibly, to some extent, the effect of the withdrawal of this powerful natural stimulant.

There is time here merely to glance at these matters, and not sufficient to attempt to study or show how much is due to each of these several causes; and besides, such problems can only be fully elucidated by thorough analysis of the data supplied by numerous statistical observations.

There is, however, another important relation between conditions of temperature and the death-rate, and that is the correspondence between the time of extreme daily range of the thermometer and months having greatest mortality. (The mean daily range for the month is found by subtracting the lowest from the highest temperature reached each day, adding together the remainders, and dividing the total by the number of days in the month.) At Lansing the mean daily range of thermometer was greatest in September, and next greatest in August. At Monroe the order by months was September. August, October, etc., which, so far, was also the order of

greatest total mortality in the State. This correspondence cannot, however, be traced further. The indication would seem to be that, under certain conditions, extreme daily range of temperature is not favorable to life. This question seems also to be a very proper one for further examination. If this or either of the two last preceding propositions prove true, the excessive mortality at this season of the year may doubtless be greatly lessened, for an important step is made towards overcoming unfavorable influences when we learn their essential nature. Indeed, it seems plain that whenever the effects of such causes shall be fully appreciated, they may be reduced to a minimum by proper clothing, frequent change of clothing. corresponding with changes in temperature, and by means of properly regulated artificial heat. No effect has been noticed that could be traced to single great changes of temperature. At least two of the greatest changes of this kind are recorded in months in which less than the average number of deaths occurred. The effect of such changes can be better learned by compiling the deaths by weeks instead of by months, as has been done. This will involve still further time and labor, but promises valuable knowledge in return.

TABLE XII.

The Number of Deaths, from several Specified Causes, of each Sex, Total Number in each Month, and at Different Periods of Life, which were Registered During the Year ending December 31st, 1869.

		Cancer.	Cephalitis.	Croup.	Diarrhea.	Diptheria.	Dysentery.	Measics.	Scarlatina.	Typhold Fever.	Whooping Cough.
To	tals	118	226	105	295	89	286	147	252	487	158
	Males	47	122	52	168	49	186	84	180	226	77
SEX	Females	66	104	51	182	40	99	68	122	209	80
7 2	Unknown			2			1				1
	January	8	8	9	4	4	4	14	18	17	8
	February	8	19	10	2	4	2	25	14	18	18
	March	8	27	10	6	9	2	29	84	81	11
	April	8	19	8	8	6	5	16	95	18	11
	May	10	22	5	6	8	6	17	14	27	16
	June	18	11	5	12	4	6	14	19	16	13
MONTHS.	July	9	11	8	85	5	12	7	. 14	21	18
NO	August	4	26	10	92	5	68	4	14	51	15
×	September	12	88	11	80	14	96	4	22	76	29
	October	16	20	9	27	12	81	6	24	79	12
	November	15	10	9	8	8	8	4	15	45	11
	December	12	19	16	15	10	4	7	89	. 88	10
	Unknown		1		5		1				1
	Av. Month	9.41	18.75	8.75	24.17	7.41	19.58	12.25	21.00	86.41	18.08
	Under 5	6	146	94	261	47	188	104	168	50	149
	5 to 10		28	8	4	24	7	28	62	28	7
	10 to 15	2	8	8	2	7	8	2	10	42	
	15 to 20	1	11		1	6	2	6	5	59	
	20 to 80	5	8		8	2	8	7	4	96	1
AGES.	80 to 40	8	8		6	2	. 8	2	2	48	1
AB	40 to 50	11	6		4		8		1	29	
	50 to 60	27	6		5	1	6	1		82	
	60 to 70	24	5		5		9	1	1	42	
	70 to 80	16			. 8		6			17	•••••
	80 and over Unknown	9				•••••	8	••••••		1 8	
	CHRIGARI	4	5		1		8	1	4	0	

TABLE XIII.

The Percentage of Deaths from several Specified Causes, of each Sex, of Deaths in each Month, and at Different Periods of Life, which were Registered during the year ending December 31st, 1869.

Per Ct. all Causes 1.28 2.46 1.14 8.22 .97 2.58 1.60 2.75 4.77 Males	널	i	1									
Males	Whooping Coguh	Typhoid Fever.	Scarlatina.	Меаслев,	Dysentery.	Diptheria.	Diarrhea.	Croup.	Cephalitiн.	Cancer.		
Females 58.40 46.01 48.57 44.77 44.94 41.94 42.85 48.41 47.82 58.62 58.40 58.62 58	1.79	4.77	2.75	1.60	2.58	.97	8.22	1.14	2.46	1.28	ct. all Causes	Per
Females 58.40 46.01 48.57 44.77 44.94 41.94 42.85 48.41 47.82 58.62 58.40 58.62 58	48.78	52.17	51.58	57.14	57.62	55.05	55.99	49 59	58.96	41.59	(Males	
January	50.68			1								Ħ.
January 2.65 1.82 8.56 1.85 4.49 1.69 9.52 7.14 8.95 February 2.65 8.40 9.52 .67 4.49 .84 17.00 5.55 4.11 March 7.07 11.94 9.52 2.08 10.11 .84 19.72 18.49 7.09 April 7.07 8.40 7.61 1.01 6.73 2.11 10.88 9.92 4.11 May 8.84 9.76 4.76 2.08 8.98 2.54 11.56 5.55 6.18 January 11.50 4.66 4.76 4.06 4.49 2.54 9.50 7.58 8.78	.68	21.02	20.21	12.00			22		10.01	00.10		æ
February 2.65 8.40 9.52 .67 4.49 .84 17.00 5.65 4.11 March 7.07 11.94 9.52 2.08 10.11 .84 19.72 18.49 7.09 April 7.07 8.40 7.61 1.01 6.78 2.11 10.88 9.92 4.11 May 8.84 9.76 4.76 2.08 8.98 2.54 11.56 5.55 6.18 James 11.50 4.66 4.76 4.06 4.49 2.54 9.59 7.58 8.78	.00							2.00			CURROWN	
March 7.07 11.94 9.52 2.08 10.11 .84 19.72 18.49 7.09 April 7.07 8.40 7.61 1.01 6.78 2.11 10.88 9.92 4.11 May 8.84 9.76 4.76 2.08 8.98 2.54 11.56 5.55 6.18 1 1.70 4.66 4.76 4.06 4.49 2.54 9.59 7.83 8.78	1.89	8.95	7.14	9.52	1.69	4.49	1.85	8.56	1.82	2.65	January	
April 7.07 8.40 7.61 1.01 6.78 2.11 10.88 9.92 4.11 May 8.84 9.76 4.76 2.08 8.98 2.54 11.56 5.55 6.18 1 June 11.50 4.66 4.78 4.06 4.49 2.54 9.50 7.58 8.78	8.28	4.11	5.55	17.00	.84	4.49	.67	9.52	8.40	2.65	February	
May 8.84 9.76 4.76 2.08 8.98 2.54 11.56 5.55 6.18 1	6.96	7.09	18.49	19.72	.84	10.11	2.08	9.52	11.94	7.07	March	
1170 4 56 4 78 4 06 4 49 9 54 9 59 7 58 8 78	6.96	4.11	9.92	10.88	2.11	6.78	1.01	7.61	8.40	7.07	April	
June 11.50 4.66 4.76 4.06 4.49 2.54 9.52 7.58 8.78	10.12	6.18	5.55	11.56	2.54	8.98	2.08	4.76	9.76	8.84	Мау	
	8,28	8.78	7.58	9.52	2.54	4.49	4.06	4.76	4.86	11.50	June	÷
F July	8.28	4.80	5.55	4.76	5.08	5.61	11.86	2.85	4.86	7.96	July	Months.
5 August 8.58 11.50 9.52 81.18 5.61 26.69 2.72 5.55 11.67	9.41	11.67	5.55	2.72	26.69	5.61	81.18	9.52	11.50	8.58	August	NO.
September 10.61 16.82 10.47 27.11 15.78 40.67 2.72 8.78 17.89 1	18.85	17.89	8.78	2.72	40.67	15.78	27.11	10.47	16.82	10.61	September	Z
October 14.15 8.84 8.56 9.15 18.47 18.18 4.08 9.52 18.07	7.59	18.07		4.08	18.18	18.47	9.15	8.56	8.84	14.15	October	
November 18.27 4.42 8.56 2.71 8.98 1.27 2.72 5.95 10.80	6.96	10.80	5.95	2.72	1.27	8.98	2.71	8.56	4.42	18.27	November	
December 10.61 8.40 15.28 5.08 11.28 1.69 4.76 15.47 8.69	6.82	8.69	15.47	4.76	1.69	11.28	5.08	15.28	8.40	10.61	December	
Unknown44 1.6942	.68				.42		1.69		.44		Unknown	
Av. Month 8.88 8.29 8.88 8.19 8.88 8.29 8.88 8.88 8.88	8.28	8.88	8.88	8.88	8.29	8.88		8.88	8.29	8.88		
	94.80				79.66			89.50				
5 to 10	4.48											
10 to 15 1.76 8.58 2.85 .67 7.86 1.27 1.86 8.96 9.61			•							1.76	Į.	
15 to 2088 4.8688 6.78 .84 4.08 1.98 18.56										1	1	
20 to 80 4.42 8.58 1.01 2.24 1.27 4.76 1.58 21.96	.68									1	1	
	.68									1	1	ě
g 80 to 40 7.07 8.58 2.08 2.24 1.27 1.86 .79 9.88 40 to 50 9.78 2.65 1.85 1.27 89 6.68										1	,	8
50 to 60 28.89 2.65 1.69 1.12 2.54 .68 7.88				.68		1.12						4
60 to 70. 21.28 4.41 1.69 8.61 .68 .89 9.61			89								l .	
70 to 80 14.15 1.01 2.54 8.95										1	3 .	
80 and over 7.96 1.27 68	•••••									1	1	
	••••											
(0.00 1		.22	1 50	, AR	1.97		38	1	4.41	8 58	Unknown	



Tables XII and XIII are similar to Tables I and II in the first report in this State, and have been prepared for the purpose of showing the influence of conditions connected with sex, season, and age, upon the rate of mortality from a few specified causes.

Consumption and pneumonia were not included, because they were deemed of sufficient importance to be worthy of special study in tables by themselves.

Cancer.—Of the one hundred and thirteen deaths from cancer, sixty-six, or 58.40 per cent were females. It should be remembered in this connection, that from all causes, there were 5.39 per cent more deaths of males than females, as shown by Table III. The average percentage of deaths of females from all causes was 47.30. If we subtract this average from 58.40, we find that cancer caused the death of 11.10 per cent more females than the average proportion from all causes.

Taking up the influence of season upon the death-rate from cancer, we find that during the first four months of the year there were twenty-two deaths; during the second four months, thirty-six, and in the last four there were fifty-five. The greatest number of deaths occurred in October, and the next greatest number in November; the thirty-one deaths in these two months showing a marked contrast with the six deaths in January and February.

The influence of age seems also to be important, and was even more strongly marked. Of the one hundred and nine deaths in which the age was reported, seventy-six were of persons over fifty years of age, leaving only thirty-three under that age.

We find, then, that 16.81 per cent more females than males died from cancer in 1869; that the greatest proportion of these deaths occurred in the autumn and first winter month; and that more than three-fourths of them were of persons over fifty years of age.

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If these several facts are found thus grouped together through a sufficient number of years to establish this collection of conditions as the general rule, it is believed that the evidence will be sufficient, taken in connection with what has already been worked out by the medical profession, to demonstrate the essential nature of cancer, and tend to place this dreaded malady within the class of preventable diseases.

Cephalitis.—By referring to Table IV, it will be seen that, from all causes, the percentage of deaths of males to total was 52.69. Comparing this with Table XIII, we find that the proportion of deaths of males from cephalitis was 1.29 per cent greater than the average. The difference between the percentages of the sexes is 7.97, while the average difference from all causes was 5.39.

The greatest number of deaths from this disease in any one month was thirty-eight, in September. The least numbers occurred in January, June, July, and November, corresponding, so far, with the mortality from all causes. The comparison holds so far that the disease would seem to result from a general, or at least an average cause, especially as from this disease alone there were not a sufficient number of deaths to control the general result.

The conditions of age are quite important, for of the 226 deaths, 146 were of children under five years of age. There were no deaths reported from this disease of persons aged over seventy.

Croup.—The sexes suffered from this disease about equally. The following "Exhibit A" gives the number and percentage of deaths in each month in the order of mortality, and is believed to be of sufficient importance to well repay a careful study. It is, perhaps, proper to acknowledge that the preconceived opinion of the compiler was in accordance with the evidence here presented,—that, in fact, it appears as the result of search on his part. Attention is also called to the fact that the coincidences of conditions which are here so marked, can-

not be found if the meteorological tables compiled from observations made at Lansing be used instead of the one from Monroe, which has been used in this instance. Nevertheless the subject appears to be well worthy of study hereafter, and the plan, or ground-work, is accordingly here laid out.

EXHIBIT A, of the order of Greatest Mortality from Croup, by months, with some meteorological conditions connected therewith.

	MONTHS, 1869.	No. of Deaths.	Per cent. of Deaths.	Mean daily range of Temperature.	Relative humidity of Atmosphere.	Rain-fall in inches.	Moan temperature, Fabrenheit.
jo	1. December	16	15.28	*9.00"	a.125	1.82	a81.05°
number	2. September	11	10.47	α18.67"	,225	2.67	*58.55*
Dun	8. August	10	9.52	a12.28°	a.125	1.45	*70.05
average Deaths.	8. February	10	9.52	a11.57°	*.550	*8.25	a80.00*
Dear	3. March	10	9.52	11.06°	*.325	2.25	a29,48°
18n	4. January	9	8.56	11.09*	.200	.50	38.80*
More than	4. Oorober	9	8.56	11.90°	.050	.81	41.98*
Mo	4. November	9	8.56	#8.80*	a.125	1.16	a28,17°
hs.	5, April	8	7.61	10.86°	a.850	*2.60	*46.50*
Deat	6. May	5	4.76	9.26	.625	5.61	07.45
the Yo.	6. June	5	4.76	*11.27*	a.600	5.45	a65.95°
Less than average No. Deaths.	7. July	3	2.85	9.87°	.650	5.90	78.07"
Av	erage	8.75	8.88	10.84°	.274	2.70	45.04

^{*} Exceptions. a Possible explanations of exceptions.

The evidence derived from this Exhibit is, first, that the meteorological conditions which existed at Monroe during the months in which there were the greatest number of deaths from this disease, were in marked contrast with the set of conditions observed during the months in which the least number occurred. There are so few exceptions to the general tendency

of the evidence that it seems difficult to avoid the conclusion that some of these conditions were the cause of death, if not the exciting cause of this disease. It will be noticed that the least number of deaths occurred in July, when the mean daily range of temperature was less than the average for the year, when the humidity of the atmosphere was greatest, the rainfall greatest, and the mean temperature higher than in any other month. The air then was warm, moist, and uniform in temperature, and the number of deaths from this disease in each month seems to have been in direct proportion to the absence of one or more of these conditions, although more closely connected with humidity than with either of the other two. This is partially made apparent by comparing July with August, which was third in order of mortality, and was next to the highest month in temperature, but the humidity was not one-half of the average, and the mean daily range of temperature was next to that of the highest month. The insufficiency of range of temperature alone, as a cause, is shown by a study of the conditions in November, when there were more than an average number of deaths, and the mean daily range for the month was the least in the year; but here again the humidity was slight, and the temperature was also low. The greatest number of deaths occurred in December, when the range of temperature was slightly less than the average, but the air was very dry and cold, the mean temperature for the month being 31.05°F. These observations are of out-door conditions, and it should be remembered that the capacity of air for moisture is much less when cold than when warm, so that cold air saturated with moisture, if heated, calls for more water, and will have it, even though it be taken out of our bodies. If the air be heated before breathing, there is some chance of its obtaining moisture from other sources, but if it be breathed cold, and heated by contact with the air passages while confined therein, it must take from them an unusual amount of moisture, tending to render them dry, parched.

and inflamed, if long continued. Croup is an inflammation of the tissues lining the air passages.

Consider, for a moment, some of the familiar conditions under which children in country residences have croup. During the day they are about the house breathing the air which has been heated, and in many cases quite liberally supplied with moisture from the kettles upon the stove, and, although they may have coughed a little the night before, the parents have no uneasiness until after the cooking has been done for the day, and the air beginning to lack moisture, a little one again begins to cough; perhaps not, however, until all have gone to bed, the fire out, and the crisp, cold air is breathed in, heated, and carries off with each expiration a great amount of moisture, and, depositing it upon the window pane, again returns for more, until finally the family are startled by the peculiar, dry, metallic, croupy cough. It is none too early then to rapidly build a fire, put on the tea-kettle, and perhaps send for the doctor.

Diarrhea.—This disease was fifth in order of greatest mortality, and resulted in the death of 295 persons, of whom there were thirty-one more males than females,—a difference of 10.45 per cent. The greatest number of deaths occurred in August, September, July, and October, in above order. In these four months there were 234 deaths, leaving only sixty-one to be distributed through the other months; the least number being two, in February. Two hundred and sixty-one, or 88 per cent of all the deaths, were of children under five years of age. The period of age between fifteen and twenty was most exempt from death by this cause, only one having been recorded.

Diptheria.—Rather more than the average number of males died from this disease. The order of mortality for the four worst months was September, October, December, and March, which was the same as in first report. The number for these months was respectively, fourteen, twelve, ten, and nine. Fifty-

two per cent of all deaths were of children under five, and twenty-six per cent were between five and ten years of age. The death of only one person was recorded over forty years of age, this one being between fifty and sixty.

Dysentery.—A very large proportion of the deaths from this disease were of males, being 57.62 per cent. The order of greatest mortality was September, August, October, July, etc. In the four months mentioned there were respectively ninety-six, sixty-three, thirty-one, and twelve deaths, making two hundred and two, and leaving thirty-four to be distributed through the other months. Only two deaths occurred in February, and two in March. The deaths from this disease were not quite as closely confined to children as were those from diarrhea, although 79 per cent were of children under five years of age. The age at which the least number occurred was the same as for diarrhea—between fifteen and twenty, during which period less than one per cent of the deaths occurred.

Measles.—This disease also caused the death of many more males than females. The greatest proportion occurred in the latter part of winter and spring. The greatest number in one month was twenty-nine, in March. In 1868 the greatest number was also reported in March. In order to show whether or not the deaths from this disease depend mainly upon season, and the disease of itself not necessarily fatal if the surrounding conditions are properly regulated, a few years' time might suffice, if the question could be studied in connection with these statistics; and, in addition, we could have the number of cases of sickness from this disease.

Scarlatina.—This was sixth in the order of causes producing greatest mortality, and resulted in the death of 252 persons. The proportion of females was slightly greater than the average. It was most fatal in December, causing thirty-nine deaths, and next in March; then the order was April, October, September, June, January; in November fifteen deaths, and fourteen in each of the months of February, May, July, and

August. In the first Report in this State, the greatest number of deaths were in December, and in the second Report the number in this month was next to the greatest. So far as this goes, it indicates that the deaths are in some measure dependent upon conditions of season, and goes towards enforcing the value of the knowledge already established by the medical profession. During the general destruction and throwing off of the skin and lining membranes of the excretory organs, particularly of the kidneys, now known to be a source of danger in this disease, it is insisted that these organs should be helped as much as possible, that while the kidneys are in such bad condition the skin should relieve them and supplement their action to some extent, by increased excretion through perspiration. This cannot well occur in December without extra artificial aid, and as winter comes on it might, perhaps, be expected that more deaths would result. There are many things to be considered, however, and among them the greater liability to spread the disease at seasons of the year when children come most together, at school or at play. It is to be hoped that the time will soon come when the subject will appear of sufficient importance to induce the people to take measures to stop the spread of this disease by destroying the contagious matter, through the proper use of such effective agents as carbolic acid and fire.

Typhoid Fever.—A greater number of deaths were reported from this cause than from any other, except consumption. The number was 437. The proportion of the sexes was about the average. The greatest number of deaths in one month was 79, in October; the order of mortality, by months, was then, September, 76; August, 51; November, 45; December, 38, when the number was rapidly decreased, the least in one month being 16, in June. The age at which the greatest number died was during the period from twenty to thirty; next greatest number, between fifteen and twenty; then, under five years of age, but no period of age was entirely exempt.

Whooping Cough.—One hundred and fifty-eight deaths were reported from this cause. The difference in the percentages of the sexes was 1.90 more females than males, while the average from all causes was 5.39 more males than females. The greatest number in one month was 29, in September. The least number was 3, in January. All deaths except nine were of children under five years of age.

TABLE XIV—OCCUPATIONS.

Exhibiting, by Classified Occupations, the Number, with the Aggregate and Average Ages, of all whose Occupations and Ages were Returned, of those who Died during the Year 1869, aged Twenty Years and over, Months and Days Excluded.

i	0.00000 1.00000	rsons.	Agı	£8.
CLAS	OCCUPATIONS.	No. of Persons	Aggregate.	Average.
	All classes of occupations	1,863	94,741	50.85
I.	Cultivators of the Earth	951	58,195	55.98
II.	Active Mechanics Abroad	87	4,472	51.40
III.	Active Mechanics in Shops	97	4,912	49.60
IV.	Inactive Mechanics in Shops	54	2,965	54.90
v.	Laborers—No Special Trades	148	5,768	40,83
VI.	Agents, Laborers abroad, etc	47	1,855	44.16
VII.	Seafaring Men	21	988	89.08
viii.	Soldiers	4	189	84.75
TX.	Business Men	87	3,800	48.67
X.	Professional Men, etc	55	2,654	48.25
XI.	Females	819	14,148	41.20
Į.	Cultivators of the Earth.	951	58,195	55.98
	Farmers	946	52,902	55.9 2
	Gardeners	5	298	58.60
П.	Active Mechanics Abroad	87	4,479	51.40
	Brickmakers	1	60	60.00
	Carpenters	66	8,811	50.16
	Masons	18	755	56,07
	Painters	6	804	50.66
	Stencil Cutters	1	42	42.00
III.	Active Mechanics in Shops.	97	4,819	49.60
	Blacksmiths	22	1,167	58,04

TABLE XIV-CONTINUED.

.		егвопя.	ΛGI	E 8 .
CHARR	OCCUPATIONS.	No. of Persons	Aggregate.	Average.
ш.	Active Mechanics in Shops—(Continued).			
	Boiler Makers	8	115	38.88
1	Brewers	4	162	40.50
	Button Makers	1	77	77.00
	Cabinet Makers	1	68	68.00
	Carriage and Wagon Makers	7	388	54.71
[Carvers	1	44	44.00
	Cooks	1	50	50.00
	Coopers	8	484	60.50
l	Filers	1	85	85.00
	Gunsmiths	1	62	62.00
	Locksmiths	1	32	82.00
1	Machinists	4	149	87.25
	Mechanics	16	708	48.98
	Millers	18	678	51.76
	Millwrights	. 1	64	64.00
	Potters	2	180	65.00
	Pump Makers	2	90	45.00
	Sawyers	8	71	28.66
	Tinkers	1	65	65.00
	Trimmers	1	87	87.00
	Undertakers	1	47	47.00
	Upholsterers	1	85	85.00
	Weavers	1	74	74.00
ıv.	Inactive Mechanics in Shops	54	2,965	54.90
	Barbers	1	21	21.00
	Cigar Makers	1	68	63.00
	Glove Makers	2	95	47.50
	Hatters	1	98	98.00
i	Jewelers	2	108	54.00
	Saddlers and Harness Makers'.	3	145	48.88

TABLE XIV—OCCUPATIONS.

Exhibiting, by Classified Occupations, the Number, with the Aggregate and Average Ages, of all whose Occupations and Ages were Returned, of those who Died during the Year 1869, aged Twenty Years and over, Months and Days Excluded.

		ons.	Agi	E S .
CLASS.	OCCUPATIONS.	No. of Persons.	Aggregate.	Average.
	All classes of occupations	1,863	94,741	50,85
I.	Cultivators of the Earth	951	53,195	55.98
II.	Active Mechanics Abroad	87	4,472	51.40
III.	Active Mechanics in Shops	97	4,812	49.60
IV.	Inactive Mechanics in Shops	54	2,965	54.90
v.	Laborers—No Special Trades	148	5,768	40.82
VI.	Agents, Laborers abroad, etc	47	1,855	44.16
VII.	Seafaring Men	24	938	89.08
VIII.	Soldiers	4	189	84.75
IX.	Business Men	87	3,800	43.67
X.	Professional Men, etc	55	2,654	48.25
XI.	Females	319	14,148	41.20
Į.	Cultivators of the Earth	951	58,195	55.98
•	Farmers	946	52,902	53.99
	Gardeners	5	298	58.60
п.	Active Mechanics Abroad	87	4,472	51.40
	Brickmakers	1	60	60.00
	Carpenters	66	8,811	50.16
	Masons	18	755	58,07
	Painters	6	804	50.66
	Stencil Cutters	1	42	42.00
III.	Active Mechanics in Shops.	97	4,812	49.60
	Blacksmiths	22	1,167	58,04

TABLE XIV—CONTINUED.

CLABS.	OCCUPATIONS.	rsons.	AGES.	
		No. of Persons.	Aggregate.	Average.
III. Active Mechanics in Shops—(Continued).				
	Boiler Makers	8	115	88.88
	Brewers	4	162	40.50
	Button Makers	1	77	77.00
	Cabinet Makers	1	68	68.00
	Carriage and Wagon Makers	7	388	54.71
	Carvers	1	44	44.00
	Cooks	1	50	50.00
	Coopers	8	454	60.50
	Filers	1	85	85.00
	Gunsmiths	1	62	62.00
	Locksmiths	1	32	82.00
	Machinists	4	149	87.25
	Mechanics	16	708	48.98
	Millers	18	678	51.76
	Millwrights	- 1	64	64,00
	Potters	2	180	65.00
	Pump Makers	2	90	45.00
	Sawyers	8	71	28,66
	Tinkers	1	65	65.00
	Trimmers	1	87	87.00
	Undertakers	1	47	47.00
	Upholsterers	1	33	85.00
	Weavers	1	74	74.00
IV.	Inactive Mechanics in Shops	54	2,965	54.90
	Barbers	1	21	21.00
	Cigar Makers	1	68	63.00
	Glove Makers	2	95	47.50
	Hatters	1	98	98.00
	Jewelers	2	106	54.00
	Saddlers and Harness Makers'	3	145	48.88

TABLE XIV—CONTINUED.

,		rsons.	AG	88.
CLASS	OCCUPATIONS.	No. of Persons	Aggregate.	Average.
IX.	Business Men—(Continued).	'		
	Real Estate Agents	2	110	55.00
	Retired Gentlemen	1	77	77.00
	Railroad Contractors	1	86	86.00
	Railroad Secretary and Treasurer	1	49	49.00
	Saloon Keepers	7	808	48.28
	Speculators	1	45	45.00
	Telegraphers	2	58	29.00
	Tobacconists	1	26	26.00
X.	Professional Men, etc	55	2,654	48.25
	Artists	1	30	80.00
	Catholic Priests	2	106	58.00
	Circuit Judges	2	116	58.00
	Clergymen	11	624	56.7 1
	Editors	1	46	46.00
	Justices of the Peace	1	54	54.00
	Lawyers	11	530	48.18
	Physicians	15	867	57.80
	Sculptors	1	30	80.00
,	Students	5	105	21.00
	Teachers	5	146	29.20
XI.	Females	819	14,148	41.90
	Cabinet-makers' Wives	1	40	40.00
	Carpenters' Wives	1	88	88.00
	Coopers' Wives	1	42	42.00
	Employed on Lake	1	68	68.00
	Farmers' Wives	118	5,528	46.80
- 1	Housekeepers	140	6,228	44.45
1	Housework	7	827	46.71
-	Laborers	6	275	45.68
1	Mechanics' Wives	1	. 29	. 29.00

TABLE XIV-CONTINUED.

		Persons.	Ag	B 8 .
OLABS.	OCCUPATIONS.	No. of Pe	Aggregate.	Average.
XI.	Females—(Continued).			
	Merchants	1	88	88.00
•	Merchants', Wives	2	94	47.00
•	Milliners	8	76	25,88
	Physicians' Wives.	1	72	72.00
	Sawyers' Wives	1	28	28.00
	Seamstresses	6	289	48.16
	Servants	2	48	21.50
	Stage-drivers' Wives	1	25	25.00
	Straw Workers	1	27	27.00
	Teachers	19	451	28.78
	Weavers	6	445	74.16

The returns compiled in Table XIV were not yet perfect. Subtracting from the whole number of deaths all those under twenty years of age, and all whose age was unknown, and there remain 3,965 cases in which the occupation might have been given, while it was given in only 1,863 cases, or of less than one-half of all persons who were reported as having died at and above the age of twenty years. The information to be derived from this table is valuable, notwithstanding, and there is reason for congratulation that in this Report the occupation is given in a greater proportion of cases than in the Report for 1868 for Massachusetts, where they have collected statistics for twenty-seven years.

The average age of all, twenty and over, whose occupations and ages were returned, was 50.85 years. This is only .28 of a year different from the average in Massachusetts for twenty-five years and eight months, ending December 31st, 1868, that average being 50.57. If other things were equal, this would

indicate that the death-rate of persons aged twenty and over was about the same in this State as in Massachusetts, while the fact is that if the population of Massachusetts for 1868 be estimated at 1,289,200, as given on page 65 of their Report for that year, and the percentage of deaths reported of persons twenty and over, be taken, it will be found to be about three times as great as the percentage of deaths of persons at corresponding ages reported in this State in 1869, using as a basis of calculation the estimated population in 1869, found by subtracting thirty thousand from that of June, 1870, as at page 59 of this Report. There may be several explanations of this discrepancy, among which may be mentioned, first, the fact that the occupation is not given, in either State, in one-half the cases in which it might be; secondly, the probability that in this State the records of mortality are not yet quite as closely collected as they are in Massachusetts, and if so, the death-rate in this State is accordingly low; thirdly, the population being largely made up of people from other States, and young people more likely than old to leave their homes and go to a new State, there is a smaller proportion of old people in the population,—the average age of the people is probably less than in Massachusetts. Again, the death-rate is low because the most vigorous of the young people tend to settle in new States. And, finally, the rate is low, it is believed, because the climatic and other natural conditions for life and longevity are as good in this State as in any other State, territory, or country. Although lying, in great part, north of the isothermal line, which has been pointed out as the most favorable to human prosperity, the large bodies of water which surround the Lower Peninsula, except on the south, render the atmosphere much more uniform as regards humidity and temperature, than it would be otherwise, or than it is in other places. In the light of what appears in this Report (pp. 62, 96, and 97) regarding the connection between mean daily range of temperature and the death-rate, this fact seems to be of more

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importance than would at first appear. The reports of vital statistics of other States have not generally shown, in connection with the death-rate, the mean daily range of temperature. In Massachusetts, where vital statistics have been systematically and carefully kept for twenty-eight years, if this point had been considered, the question of its influence might, so far as that State is concerned, have been long since decided.

It will be seen that more than one-half of the whole number whose occupations and ages were given, were cultivators of the soil. The average age of these 951 persons was 55.93 years,—the highest average of all the classes. The order was then, inactive mechanics in shops, 54.90; active mechanics abroad, 51.40; active mechanics in shops, 49.60; professional men, 48.25; agents, laborers abroad, etc., 44.16; business men, 43.67; females, 41.20; laborers, 40.32; sea-faring men, 39.08; soldiers, 34.75.

In Class I, the gardeners lived to a greater age than the farmers, by three years. Among the active mechanics abroad was one brickmaker aged 60. The masons lived next longest, their average age being 58.07. In other Classes there were long-lived individuals in several occupations, for instance: one hatter aged 93; button maker, 77; weaver, 74; one Indian chief, 93; two hunters averaged 70; one Indian, hunter and farmer, 57. Of the laborers, well-diggers averaged the longest lived, and they only 48.50 years. Professional men were the fifth class in the order, averaging 48.25 years. This was made lew by including the students and teachers. If only the three professions of Divinity, Law, and Medicine be taken, the average would be 54.70,—about equal to the inactive mechanics in shops,—while physicians alone averaged older than any one of the classes, being 57.80 years, a higher average than any other employment in which so large a number was reported. Business men, as a class, were a little over seven years short of the average. Several individuals, however, were quite old. One retired gentleman was 77; builder, 76; lumber dealer. 70. The merchants averaged 45.03,—three years less than the hotel keepers; grocers about two years less than merchants, and book-keepers about seven years less than grocers, or a little over fourteen and a half years less than the average of all occupations reported. Seafaring men and soldiers were shortlived, although one captain was 63 years old.

Among the females, the occupation of weaving seems to be remarkably conducive to long life, six weavers averaging 74.16 years old. Next to this comes a physician's wife, aged 72. This last person had lived nearly thirty-one years longer than the average of all females aged twenty and over, whose occupations and ages were returned, that average being only 41.20 years.

TABLE XV-CAUSES OF DEATH.-Nosological Arrangement.

Exhibiting the Number of Deaths in each County, from Specified Causes (statistically classified), during the year 1869 (Still-births included).

All causes All causes All causes CLASSES OF DEATH. All causes CLASSES OF DEATH. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes All causes CLASSES. All causes All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes CLASSES. All causes Classification. Classification. Chebotygan. Chichopera. Chichope											COUNTIES.	NTIE	zi						; !		
9,145 1 205 30 10 158 116 20 215 181 271 200 10 9 171 198 40 268 7,568 1 177 29 8 188 100 16 185 175 10 7 148 78 90 208 2,518	CAUSES OF DEATH.	STATE.	Alcona.	АПедап.	-	-	-		-	-		-	-	-	-	i -	:	•	Emmet		Gd. Travense.
7,563 1,177 29 8,188 100 16,185 130 250 81 10 7 148 73 20 208 2,518 26 15 29 41 6 50 45 75 70 1 3 41 54 7 66 1,734 40 2 2 25 16 8 41 6 8 41 10 8 41 1 10 8 41 11 40 814 11 7 12 1 16 14 25 10 2 1 10 2 2 2 468 11 7 13 7 16 14 25 10 2 1 10 2 2 2 468 14 2 13 15 2 2 1 10 2 1 10 2 2 2 468 15 16 20 48 74 70 1 3 41 6 3 4 4 4 4 4 4 4 <td< td=""><td>All causes</td><td>9,145</td><td>-</td><td>202</td><td>98</td><td>10</td><td>158</td><td>116</td><td></td><td></td><td></td><td>1</td><td>00</td><td>1 0</td><td>0</td><td>=</td><td></td><td>190</td><td></td><td></td><td></td></td<>	All causes	9,145	-	202	98	10	158	116				1	00	1 0	0	=		190			
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2,518 52 15 2 38 41 6 50 45 75 70 1 3 41 54 7 66 1,734 40 2 2 25 16 8 60 70 42 2 2 88 41 1 48 2,834 1 60 26 4 55 60 70 54 8 1 70 58 9 90 9	CLASSES,																				
2,884 1 60 9 2 25 16 8 60 16			- 1	23	22	G)	88	17	9	9	5	10	02	I	00	~	=	10			
2,884 1 00 8 4 40 26 4 56 59 70 54 8 1 50 59 9 50 80 814 11 7 . 15 7 16 14 25 10 2 1 18 10 2 2 6 4 56 59 70 54 8 1 5 2 1 18 10 2 2 6 7 1 18 10 2 1 1 18 10 2 2 6 7 1 18 10 2 2 6 7 1 18 10 2 2 6 7 1 1 18 10 1 1 2 2 6 7 1 1 18 10 1 1 2 2 6 7 1 1 18 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	II.—Constitutional Diseases			9	O1	Q1	S	16	80	10	86	15	01	01	101	-	92	4	-	7	
814 11 7 . 18 7 16 14 25 10 2 1 18 10 2 26 468 14 2 . 18 10 3 10 5 18 5 2 . 10 1 1 3 2,488 52 15 2 39 41 6 50 48 74 70 1 3 41 54 7 65	IIILocal Diseases	2,884		9	00	*	9	56	4	8	88	10	70	90	-	-	92	12		179	
2,488 52 15 2 39 41 6 50 48 74 70 1 3 41 54 7 65	IV.—Developmental Discases	814	1	11	1-		13	_	1	16	17	225	10	Q3	-	-	82	×			
2,488 52 15 2 30 41 6 50 48 74 70 1 3 41 54 7 65	VViolent Deaths	468	;	7	Ci	×	99	10	90	10	13	100	k9	21				2		64	
2,488 52 15 2 39 41 6 50 48 74 70 1 3 41 54 7 65	ORDERS.																				
	I1. Miasmatic Diseases	2,483		22	15	04	30	17	9	8	65	2	0.2	-	è	-	==	-3			
	2. Enthetic Diseases	Oi-	1	:	-3				_	:				-	=		P			-	

* Including Still-born.

TABLE XV-CONTINUED.

										ర	COUNTIES.	TES									
CAUSES OF DEATH.	.arata	Alcona.	Allegan.	Alpena.	Antrim.	Ватгу.	Bay.	Benzle.	Berrien.	Branch,	Calhoun.	Савв.	Charlevolx,	Срероукав.	Chippewa.	Clinton.	Delta.	Eaton.	Emmet	Осповес.	Gd. Traverse.
ORDERS.								1				1				1			1		į
8. Dietic Diseases	13	1	1	İ	i	1	1	-	1	-	i	0.5	1	i	i	*	1	1	1	1	i
4. Parasitic Diseases	15	1	1	i	1	1	T	1	1	=	-	55	1	1	1	4 :	1	1		1	
II.—1. Diathetic Diseases	414	-1	10	-	1	14	64	H	6	01	55	16	-	1	1	1-	- 1	1,	- 140	11	
2. Tubercular Discases	1,820	-	35	F	(2)	15	4.	01	45	2	45	56	-	01	1	56	1	101	1	80	20
III1. Diseases of Nervous System	975	77	19	-		13	116	01	22	56	25	co	00	1	1	98	:	80	9	18	7
2. Diseases of Organs of Circulation	124	1	-	i	1	10	1	1	04	00	00	1-	1	1	1	9	1	4	= •	13	_
8. Diseases of Respiratory Organs	621	1	50	**	*	10	1-	G4	18	16	50	03	1	1	1	00	1	18	60	18	_
4. Diseases of Digestive Organs	811	1	11	1	03	6	09	1	=	00	0	9	1	-	1	C.	1	t-		10	
5. Diseases of Urinary Organs	100	1	04	1	1	:	-	:	01	:	박	00	4	i	1	H	1	60		(0)	_
6. Diseases of Generative Organs	18	1	1	1	1	1	1	1	-	78	7	•	1	i	İ		1	1	-30	-	
7. Diseases of Organs of Locomotion	63	1	1	i	1	+	1	1	1	1	1	*	1	1	1		1	1	C FE	- }	1
8. Diseases of Integramentary System	45	45	-		-	01		-	•	01	8	-	_	-						8	_

1v1. Dev. Discases of Unitaren	81.7	:	20	****	9	00	:	-	4	15	60	4	59	20	24	1.	39
2. Dev. Diseases of Adulta	180	1	0)	69	61		:	60	1Ġ	64	Ø4		4	61		9	:
8. Dev. Diseases of Old People	810	1	t-	1	00	69	1	10	00	1-	7	1		-	- 14	13	-
4. Diseases of Nutrition	101	1	1	1	Ċ1	63	1.1	Ø1	Φŧ	-	+			-	-	н	
V1. Accident or Negligence	7	-	0	9	G	4	80	1-	69	9	80			40	- 04	-	-
2. Battle	1	1	1	-	4	1	1	3	- 1	1	1				- 1		- 1
8. Homicide	•		Ť		- 1	1	1	1		i	13	×		•			
4. Suicide	85	.: 83		-	-	-	4	-		-	1	•		i	10		:
5. Execution					:	. 1	1	1	11.6	-	- 1	. 1		i			;
6. Violent Deaths, not classed	192		8	1	90	7	1	01	00	9	03			10	-	۵۱	-
Sudden Deaths (cause unascertained)				1	1	- 1	1.	1	· · · · · · · · · · · · · · · · · · ·	1	1			į		_ _	
* Causes not Specified	1,281	į	88	61	20	1.6	4	30	24	15	19	64	83	8	8	8	۵

*Including 15 from Hemorrhage, 95 from Inflammation, and 20 from Throat Diseasa.

TABLE XV-CONTINUED.

			6				_			အ	_			
1	Gd. Traverse.			_ <u>:</u>		<u>:</u>						<u> </u>		
	Gеnesee.	<u> </u>	3					-			22		:	_ ;
	Emmet.		1-	:	<u>:</u>		- !	:		•	_		<u>:</u>	
	Eston.		3	-	æ	-	61	}	2	01	18	7	:	:
	Delta.		1	-	-	:	-	:	i	:	i	:	:	_
	Clinton.		#	i	10	_	:	-	\$1	က	83	_	:	_
	Chippewa.		:			:			-	-	1	i	:	_:
	Срероуван.		30	-	_	-	i	-	_	-	_	-	:	_
	Charlevoix.		Н	:	-		:	:	-	-		:	-	_
COUNTIES.	Саве.		5		-	6	-	-	_	13	15	- :	-	_
NOC	Calhoun,	1	7		91	6	C3	-	-	œ	7,	အ	တ	_
ర	Втапср.		\$			ဘ	-	:	7	ÇÌ	22	90	Ġ1	_
	Berrlen.		ಜ			00	_		G1	Ħ,	6	_	:	_
	Benzie.		9		- :		:	:	Т	31	CI	-	-	_
	Вау.	i	7	Ξ		64	1	-	-	7	Ξ	-	1	_
	Barry.		88	ī	00	:	00		-	-	19	Ç1	_	
	Antrim.	ĺ	34	1			-				1			:
	Азрепа.	<u></u>	15			-		-	အ	-	24	i	i	_
	Allegan.		25	-	**	1-		-	23	61	15	61		_
	А]сорв.	<u></u>	-;		:	:	-	i	-			i	i	_
	STATS.		2,483	4	¥	222	æ	-00	5	3		8	5	
		<u> </u>	∞í —,				 -							
	CAUSES OF DEATH.	CLASS I. ORDER 1-Miasmatic.	Totals.	1. Smallpox	2. Measles	3. Scarlatina	4. Diphtheria	5. Quiney	6. Croup	7. Whooping Cough	8. *Typhus	9. Erysipelas	10. Metria (Pucrperal Fever)	11. Carbancle

12. Infacture	65	1		:		1	1	7.00	:	-		:	1	1	:
18. Dysentery	986		1	2	90		8		i	1	2	=	1	Į.	31
14. Diarrhea	311	6	1			20	;				+	-	1	-	i
15. Cholera Infantum	108	24	1	2	-	9	-	- 1	1	1	21	85	1	1	-
16. +Cholera	30	1	-	M D	- 1	-	4		1	1	- 5	-	1	1	į
9 17. Ague	116	30		90	7	0		-	-	1	- ;	-	i	01	-
18. Remittent Fever	-co	i	:	= 1	-4	;	ř	Y	- 1	1			- {	-	į
19. Rheumatism	\$	1			_	-	00		i	- 4	_ 1	21	-	80	:
CLASS I. ORDER 2-Enthetic.								-	-	_					
1. Syphilis.	31	1	*****		1	-				i	-1	- 4	1	*	;
CLASS I. ORDER 3-Dietic.	-									_	_				
Totals	22	1	1	•	_	i	i	:	1		- 1	-	-		į
2. Purpura and Scurvy	-	1	1	. 0	1	1	i		1	1	ď	1	1	- 2	:
3. Delirium Tremens	61	1	1	4		1	;	:	1	- 1	-,	- 1	1		į
4. Intemperance	10	!	* *			1	:	1	- i	1		- 5	1		;
CLASS I. ORDER 4-Parasitic.										_					
Totals	15	1	1	•		1	;		;	1	1		i		
1. Thrush	·	!	-	4	-	-		-		÷		- :	1	4.1	i
9. Worms	10				_	1	-	-	-	-	=,	1		-	:

• Including 437 from Typhoid Fever, 248 from Fever, 41 from Billous Fever, and only 9 reported from Typhus. + Including 21 from Cholera Morbus.

TABLE XV-CONTINUED.

		_								8	COUNTIES.	IES.								
CAUSES OF DEATH.	STATE.	Alcona,	Allegan.	Alpena.	.mirinA	Barry.	Bay.	Benzie.	Berrien,	Branch.	Calboun,	Case,	Charlevoix.	Срероукап.	Chippewa.	Clinton. Delta.		Emmet,	. Эсповее.	Gd. Traverse.
CLASS III. ORDER 4-Digestive Organs.								1.			İ	1	i			1	-			
Totals	311	1	11	-	O1	0,	01	- 1	7	92	6	9	1	-	1	6.	1	1-	- 4	10
1. Gastritis	15	i	-	- 1	1	-	1	1	1	1	-	i		1	:	1	-	1	1	
2. Enteritis	119	_	61	- }	-	t-	1	-	7	1		1	1	-	1	00	- 3	4	1.	(0)
3. Peritonitis	2	:	- 1		1	Ì	i	Ì	1	1	-		1	1	- 1	1	+	- 1	1	- 1
5. Ulceration of Intestines	80	i	- [Ì	i	i		-	1	1	-	-	1	1	1	- 1	1	-
6. Hernia	18	_	i	- 1	1	1	i	i	1			90	1	1	-	00	-	-	1	1
7. Heus	-	i	i	-	- 1	1	1	1	1	1	i	1	1	1	1	- 1	-	1	+	- 1
8. Intussusception	0)		-	1	1	i	1	-	1	9	1	1	1	-	1	- 1	1	1	-	+
11. Stomach Diseases, etc	1.	-	9	-	-	-	01	-	00	-	-	+	1	1	+		-	-	-	7
18. Hepatitie	13	1	i	1		1	i		- 1	1	-	7	i	-	1	1	+	1	1	-
14. Jaundice	11	- 1	1		1					1	-	i	1	-		-	-	1	-	1
16. Liver Disease, etc.	13	į	C	I			Ï		*	-		-		-	-	0	-	-	-	-,

1. Cephallitis	88	=	တ		:	=	-	2	<u> </u>	20	-	•	≓	$\frac{\cdot}{\cdot}$	1 1	=		<u>:</u>	<u> </u>	_	
9. Apoplexy	8	8			i	-	:	:	4	_	+	-	-	-	\div	<u>:</u>	:			<u>:</u>	
8. Paralysis	130	8	•	-					*	•	10	œ	$\frac{\cdot}{\cdot}$:	- :	:		:		_	_
4. Insanity	10	-	:	-			÷			-	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$				•		:		_
6. Epilepsy	18	i		-		:	ij	-	:	<u>:</u>	_ <u>:</u>	:	:		-	- :	<u>:</u>	<u>.</u>	_		
7. Tetanus	- 01		:	i	-	••	<u> </u>	:	=	-	- <u>:</u>	$\frac{\cdot}{1}$:	:	_ <u>:</u>	:	<u>:</u>		- <u>:</u>		
8. Convulsions	256		4	:	i	4	*		•	10	1			:			•	:	*		_
9. Brain Diseases, etc	267	267	1-		-	4	13		13	10	10	- :	-:			-		2	-	<u>:</u>	
CLASS III. ORDER, 2-Organs of Circulation.									<u> </u>				_								
Totals	274	-	1-			70	i		31	30	œ	-	<u>:</u>	- <u>:</u>	:	•		:	=======================================		
1. Perfoarditis	**************************************			:	:	:	<u> </u>	<u>:</u>		$\frac{\cdot}{\cdot}$	- <u>-</u>	<u> </u>	:	:	- :	<u>:</u>		-:		_	
3. Heart Disease, etc	252		1-	1-	i	10	i		31	æ	30	÷	$\frac{\cdot}{\cdot}$:	:		÷		<u>:</u>	
CLASS III. ORDER 3-Respiratory Organs.																					
Totals	621	;	8	_	_	9	10	31	18	16	8	<u>:</u> 왔	$\frac{\cdot}{\cdot}$	- <u>:</u>	:	œ		18	=	_	_
2. Laryngitis	***		-		:		i		$\frac{\cdot}{\cdot}$		<u>:</u>	-	-:	- 	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>		
3. Bronchitis	=	•	:	ī	:		Ì	- <u>-</u> -	$\frac{\cdot}{\cdot}$	$\frac{\cdot}{\cdot}$:	:	<u>:</u>	<u>:</u>	<u>:</u>	:	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	
4. Pleurisy	7	7	31	_	-		Ť	-	-			39	:		:	:	:	<u>:</u>	-	<u>:</u>	
5. Pasamonia	\$	33	18	18	-	œ	1-	61	13	7	28	:	<u>:</u>	<u>:</u> ;	-:	<u></u>		_	2		_
6. Aethma.	**	*	69		:	:	i	<u>:</u>	<u> </u>		«	-	$\frac{\cdot}{\cdot}$	÷		- ÷	<u>.</u>		•	<u>:</u>	
7. Lung Diseases, etc.	7		-63	_	_	31	_	_	-	34	- ;	− :	-	-:	- :	;	-,	: 	_	*	

TABLE XV-CONTINUED.

	-									00	COUNTIES	ES.								
CAUSES OF DEATH.	STATE	Alcona,	Allegan.	Alpena,	Antrim.	Вапу.	Bay.	Benzie.	Betrien.	Branch.	Calboun.	Charleroix.		Срероудап.	Chippewa.	Delta.	Eaton	-	Emmet. Genesee.	Gd, Traverse.
CLASS III. ORDER 4-Digestive Organs.							1			1		1	1	-	1	-	1	-	-	1
Totals.	311	1	11	1	01	6.	01	:	=	00	6	9	-	1	7	6	-	1-	1	10
1. Gastritis	15	-	-	-	1	-	1	1	-	:	1	1	1	- 1	1	1	:	:	:	-
2. Enteritis	119	1	O1	1	-	1-	1	1	4	1	9	-	:	+	- 1	00	-	4	1	01
3. Peritonitis	4	1	1	1	1	1	1	1	1	1	1	1	1	i	1	1	-1	1	1	- 1
5. Ulceration of Intestines	80	1	İ	i	i	1	-	1	1	-	1	-		1	1	- 1	- 1	_	-	1
6. Hernia	18		1	1	-	1	i	1	1	1	1		_	1	-		:	-	-	1
7. Ileus	Ŧ	1	i	i	İ	1	1	1	1	1	-	-	-		-	1				1
8. Intussusception	01	1	1	1	1	1	-	1	:	-	:	1	_	-	-	- 1	1	_	-	-
11. Stomach Diseases, etc	1-	į	9	-	-	-1	01		90	1	-	-	1	_	1	- 1	- 1	1	- 1	7
18. Hepatitis	0		1	:	1	1	1		:	1	1	1	-	_		1		-	1	-
14. Jaundice	. 11		*		-	-	1		+	1	:		-	-	-	-		:	:	
15. Liver Disease, etc.	3	-	03	;					7	-		_		=	_		_	-		

CLASS III. ORDER 5-Urinary Organs.			 	
Totale.	87		 œ	<u>-</u>
1. Nephritis	***		 	
4. Diabetes	25	-	 	-
5. Calculus (Gravel, etc.)	22		 	
6. Cystitis			 	. :
7. Kidney Disease, etc.	290		 	_ :
CLASS III. ORDER 6-Generative Organs.			 	
Totals	18		 	_
1. Ovarian Dropsy	-		 _ ; _ ;	
2. Disease of Uterus, etc.	п	-	 	· -
CLASS III. ORDER 7-Organs of Locomotion.		-	 •	
Totals	1		 	:
1. Arthritis.			 	_:
2. Joint Disease, etc.	61		 _ <u>i</u>	:
CLASS III. ORDER 8-Integumentary System.		ŀ	 	,
Totals	46 1 2 1 2	80	 1	
1. Phlegmon	16 1			_ <u>.</u> .
2. Ulcer.	11		<u>_</u>	_:
8. * Skin Disease, etc.	12 1 1 1 1 1 1		 	, :
+ Including 17 from Tumor				

TABLE XV-Continued:

						:	:		200	COUNTIES.	ać.	! '] :	!		<u> </u>	:
CAUSES OF DEATH.	ataté	Адсопа.	Allegan.	Alpena.	Barry	Bay.	Berrien.	Branch	Calhoun.	.8883	Charlevoix	Средодвин	Сһіррема	Chinton.	Delta.	Eaton.	Enmet.	Genesee. Gd. Traverse
CLASS IV. ORDER 1-Developmental Diseases of Children.			:		-			1	1					1	:		1	-
Totals	81.5	- !		4			90	-	10		-		1	C.	-	00	01	t+
1. Still-born	139	1	-		_			-	10		9	-	1	-		21	- 1	1
2. Premature Birth and Infantile Debility	10	1		4		-			**		1		- 1			ø	01	10
8. Cyanosis	Ç.				1	1				- 1			1	1		i	1	
4. Spina Bifida	*	i			į	1	•	-	1	1	1		1		-	i	1	1
6, Other Malformations	*		1		1			1			1	1	1	- 9		i	-	1
6. Teething	8		-				2)	-	-	93	-		1	-	-	1	;	
CLASS IV. ORDER 2-Developmental Diseases of Women.																		-
Totals	180	i	24	34		91		90		91	21		:	*		33	1	9
1. Paramenia	69			<u>:</u>	:	_			:		_;	- 1	-	=		-	-	
2. Child-hirth	198		01	- 64		- 69		00	12	01	01			80		Q1	-	e

CLASS IV. ORDER 8—Developmental Discasses of Old People.	1.57										-				_				
1. Old Age	310		7.	1	30	24	3	2	30	1+	•	;	=	1	**		_	29	**
CLASS IV. ORDER 4-Discasce of Nutrition.									-	-	-				_				
1. Atrophy and Debility	<u> </u>			•	**	04	1	28	41	-	-	+	:	:	#			_	
CLASS V. ORDER 1-Accident or Negligence.	:::									-		_	-						
Totals	24%		91	E.F.	3.	*	20	ř*	29	10	œ	+	1	;	+				-
1. * Fractures and Contusions	97		- 1	*	-	11	1.0	~	-	91	-:	:	-						
2. Wounds	16			34	-	1	,	- 4	1	÷	÷	Ť	1	- 1	_4		_		
8. Burns and Scalds	89	-		-	Q1	1	-	QI	:	99	00	:	1		-	-	39	4	
4. Polson	16	1		Terrei	- ;	1	-	н	:	÷	i	i	1		н		•		
5. Drowning	96		-		00	60	61	91		+	1	-	-	:	-	-		G#	-
6. Suffocation	255	1		6	31	1		-	:	-	i	1	-		-	124	- 1		
Class V. Order 8-Homicide,	9	1	11.6	_	;				1	1	1	1	1	1					
Class V. Order 4-Suicide	88	*	*	- 10	-	-		н	:	-	1	:	-				1	- '	
Class V. Order 6-Violent Deaths, not classed above.	192	1	90		90	4	= -	21	50	9	91	-	-1		-		10	21	_
Sudden-cause unknown	+				1	:	×.		T	÷	1	+	+		_		:		:
+ Causes not specified	1,281	. 38	-	24	02	16	4	90	55	55	19	T	01		86	8	98	28	•

* Including 19 by railroad accidents. † Including 15 from Hemorrhage, 95 from Inflammation, and 20 from Throat Disease.

TABLE XV-CONTINUED.

									၁	COUNTIES.	TIES	,								i	
CAUSES OF DEATH.	Gratiot.	Hillsdale.	Houghton.	.nornH	Ingham. Ionia.	Tosco.	Isabella.		Kalamazoo.	Kent.	Кемеелаw.	Гареет.	Leelanaw.	Гепажее.	Livingston.	Маскіпас. Ласошр.	Manistee.	notiank.	.oftenpasid	Mason.	
All causes	18	555	8	25	87	288	8	3 217	277	88		125	#	F12	`: ≅	°i 	788	2	181	# #	
* Specified causes	8	58	86	45	200	198	18 25	191	848	808		108	8	245		- - :	211			हैं। इ.	_
CLASSE.																					
IZymotic Diseases	83	3	45	2	*	57		28	8	æ		12	2	8	_: %	-	3	02		2.	
II.—Constitutional Direaser	77	-\$	1-	15	这	22		8	28	85		8	4	2	. : 81		<u> </u>			13 10	_
III.—Local Diseases	8	25	77	- 5	<u>z</u>	8		& 	ま	110		33	6.	6	- 4	- - -	- æ	· sc		12	
IV.—Developmental Diseases	4	13	2	•	16	6.			24	- 8	_	- 6-	10	14	8		- 1 2	31		c.	
VViolent Deaths	10	15	8	9	1	9	<u>.</u> .	~	8	7		15	90	18	:		_ ~		,	· ••	_
ORDERF.																					
I1. Miasmatic Diseases	83	25	4	13	8	8	- 4 -	. ج	8	8		56	10	22	_: 8	<u>-</u>	25	19		· 8	
2. Enthetic Diseases					- <u>:</u>	_:	_!	_ !	_;	_	_ :				:	:	_;	_:	_		

ORDERS.			•						_						_	_				
3. Dietic Diseases.		- :	•		_;-	- :	- :		1				•							
4. Parasitic Diseases	-				-	:		- 0			-	1	-				_		-	
II1. Diathetic Diseases	49	18		20	± 1		:-	_	-					5	Б	<u>-</u>	-		==	-
2. Tubercular Diseases	G	88			8	2	- E		6	E.	-	8		7.5	66	돺	_		Ξ	z .
III 1. Diseases of Nervous System	*	22		20	25	55			-	-		-		2		*		_	=	=
2. Diseases of Organs of Circulation	23	12	20	-		•	-;-		-		,		=	Ξ	=	-	_		_	
3. Diseases of Respiratory Organs		18	6		.	80		_	-	6			=	=	Ξ.	<u>=</u> -	_		=	•
4. Diseases of Digestive Organs	ec -		34	_	43	42	_:_		-	<u> </u>		-	-	Ξ	ے	•	-		=	-
5. Diseases of Urinary Organs	œ			. :	24		 -		_		- <u>. </u> -	24	-	=	>	-	_	-		
6. Diseases of Generative Organs	;		-	-:	-: :	_:	<u>:</u>			_		_			-	~		- · -		
7. Diseases of Organs of Locomotion			;	. ;	-	- :- :	_ ;-	:	- :-	:			-	-	-					
8. Diseases of Integumentary System	-	- ;		,	-		<u>;</u>		·	~		-	-				_			

* Including Still-born.

TABLE XV-Continued.

									2	LND	COUNTIES.										
CAUSES OF DEATH.	Gratiot,	Hillsdale.	Houghton.	полиН	.madgal	.elaoI	Iosco,	Isabella.	Леджени.	Kalamazoo.	Kent	Keweenaw.	Leclanaw.		Lenawee.	Mackinac.	Жасопъ.	Manistee.	Maniton.	Marquette.	Manon.
IV:-1: Dev. Diseases of Children		8	1-		12	60		31	-	1 10	1 12			64	-	- 00		1 4	-		:
t. Dev. Diseases of Adults	-	80	34	æ	91				-	- 6	*				G9			30	1		01
S. Dev. Diseases of Old People	29	6		•	6.	10		=	00	10	200				6		-	1	-1		
4. Diseases of Nutrition	-	VI.	∞.	-	1.00	1		_	. J.	=	21				21	1		20	-	Cigo	:
V1. Accident or Negligence	K	4	•	7	\$	6			01		t-				36				: :		
2. Battle	1					1	1			÷	1				-:	-					
3. Homicide	-					1			-	+	:				1			= 7			_
4. Suicide	1					1			-	10	-				:			09		!	+
5. Execution	1	-		- 7		:				- 1	:					1		- 1		. :	-
6. Violent Deaths, not classed	24	3.	j.	91	**	-	64		69	· œ	•		®	- 09	•	-	-	GN	-		<u></u>
Sudden Deaths (cause unascertained)		100	- :		•	i		:-	-	1	i	<u>:</u> :	- :	- 	-				•	İ	
* Causes not Specified.	15		22	9	81		엄	ေ	6		: :				 	<u>.</u>			•	~	20

CLASS I. ORDER 1-Missmatic.	-											• • •		7			-		
Totals	88	59 4	11	12 69	25	*	1-	28	8	86	1	8	9	72	35	8	61		88
1. Smallpox		:		89	4.		1	•	:	91	:	-	;	1	•		-		
2. Mensler			-	_	00		;	24	90	1	:	-	1	- 1	:	20	-		*
8. Scarlatina	71	-	10	51	20	1	;	00	*	2	1	13	15	11		19	- 5		9
4. Diphtheria		-	-	_	- 1	*	1	7	91	4	1	:	7	-		00			91
5, Quiney	100	-	. 196		•	T.	i	100	:		1	1	1	1		:	- 60	*:	- (
6. Croup	w	-	9	-	•	-	1	10	00	0	1	- [-	-		9	-		+
T. Whooping Cough	-1	00	1		01		1	4	*	29	;	90	91	91	3	-	- 7		01
8. +Typhus	20	0	-	91	85	,	91	5	18	86	1	-7	-	10	=======================================	9	-00		15
9. Erysipelas.	701	-			21	-	1	1.0	-	0	;	-	1	-	:	24	- X		:
ili. Métrik (Puerperal Fever)	,	1	-		3		Ī	1	:	-	:	-	1	-		1	- •		1
11. Carbuncie		1	- !		- +	•	Ì			:	1	1	:	1		1	×		Ť
lz. Influenza.		1	1		:	,	1	1			1	1	1	1	. –	73	1.		
18. Dyscntery	80	01			*	24	4	91	10	01	1	1	0+	80		. 7	29	-41	-
14. Diarrhea	50	•	80	24	91		1	00	t-	16	1	1	00	*		10	Q1		7
15. Cholera Infantum	-	-	80	-			1	10	1-	80	1	1	4	2	98	-	-	:	*
16. ‡Cholera		10		- 21		1.00	1	-	ï		1		:	KO.		1	-		
17. Ague		21		70	4		1	41	9		1	91	:	+		99	Q9:		21
18. Remittent Fever		1		-			1		:		İ	-	1		-	1		-	
19. Rheumatism		_		- 0	9			80	2		-	-		4	:		-	_	_
# Including 15 from Homosphage 05 from Inc		4	7	8	Ę	3		1	+ 1	i de la	4	o 487 from Trenhold		Si odi	Payer 9	9	Town	•	T Can

* Including 15 from Hemorrhage, 95 from Inflammation, and 30 from Throat Disease. + Including 437 from Typhoid Fever, 348 from Fever, 41 from Billious Fever, and only 9 reported from Typhus. ; Including 21 from Cholera Morbus.

TABLE XV-CONTINUED.

										,	OUS	COUNTIES.	*								
CAURES OF DEATH.	Gratiot.	.olabelliH	Monghton,	Haron,	Ingham.	lonia,	losco.	Isabella.	Jackson.	Kent.		Keweenaw. Lapeer.	Leelanaw.	Lenawee,	Livingston.	Маскіпас.	Масотр.	Manistee.	Manitou.	Marquette.	. no-sK
(LASS I. ORDER 2.—Enthetic.	1			1	İ	1	1		1	-						_		<u> </u>	1_		.
Syphilis	1	j	:	1	3	1	-	-	-	:	- 1	1	-		1	1	1	1	-	-	
CLAMM I. UNDER 8Dietic.						-		-	-		_	-	_								
Totals	- !	:	1	1	1	-	-	1	1	:	1	1	-	1	:	-	1	1	- ;	1	
curvy	1	1		-	1	i	1	i	1	1	i	1	1	1		1		1	į	:	
Delirium tremens	1	1	1	1	1	1	i	1	1	1	1	1	1	1	1	1		1		Ė	<u>:</u>
Intemperance	1	-	1	1	1	1	1	-	-	-	-	:	1	i	i	1		:	1	1	! _
CLARA I. ORDER 4Parasitic.								-	_	-	-	_	_	-			-				
Totals	1	-	-	1	1	+	-	+	-	- 1	1	- 1	1	,	1	1		-	-	-	
Thrush	- 1	1	-	1	1	1	-	1	-	-	1	-	1	χ.	1	!	1	-	i	1	_:_
Worms	1	-	1	1	1	-		-	1		1	1	1		1		-	1	- {		
CLARS II. ORDRR 1.—Diathetic.											-	_									
Totals	2	18	-	80	7	5	-	-	=	18	18	:	100	-	11	-	91	01	1	20	
Dropey and Anemia	60		-	7	4-				×	=	ď				1-	4.	10	0		2	_:

3. Cancer	79.	9	1	01	90	1	* .	-	90	1		4	1	6		01	-		-	-	-
4. Noms	G)	-	:		-	80					01	7	i	-		1	-	1	:	:	:
5. Mortification	1.	7	1		:	:		- 1	- 1			-		-	_	1	- 1	1		- 1	į
CLASS II. ORDER 2Tubercular.		-		-		,	_	_	_												
Totals	6	28	9	6	8	33	00	9	20	25 25	38	53	7	#	81	1	8	10	- 1	91	s .
1. Scrofula	ul-	01	-		60	00		-	-		-		1.	-	-1	1	-	. 6	:	- 1	į
2. Tabes Mesenterica		1			#	1	0	141	1	-		1	1	-1	11	1	1	- 1	- !	;	į
3. Phthisis (Consumption of Lungs)	6	31	9	c	22	57	90	10	88	85	88	8	+	43	31	1	8	9	1	10	3.
4. Hydrocephalus	- 3*			. (-	00		1.41	1	_4.		1	1	-:	- 1	- 1	=3.	7	1	- 4	;
CLASS III. URDER 1-Nervous System.		-						_	_												
Totals	7	31	6	90	23	31	-	4	81 4	45	47	10	-	50	6	1	56	4	1	13	8
1. Cephalitis	-	10	1	4	91	9	***	-	00	=	0	91	:	4	60	1	00	21	1	7	:
2. Apoplexy	- 5	-	1		-	:	-	4:	-	01	_	-	:	*	-	1	00		1	-	:
3. Paralysis		10	1	- 0	10			-	9	10	œ	4	- 1	9	91		90	*	- 1	91	:
4. Insanity		1	1	- 10	:			747			21		1	1	1	-	-	- 1	:		:
6. Epilepsy	1.40		1	77	1	-	-	- 16-	1	**	04	1	1	4	1.0	1	1.0	-	1		į
7. Tetanus	11.6	4	1			- 2	- 1	- 1	9	-		- 1	1	1	:	1	1	1	- 1		:
8. Convulsions	01	£.	0		20	1.0	1	_	77	=		91	. 5	10	- 1	1	9	-	- 1	*	-
9. Brain Diseases, etc	-	*	:		6	œ		63	12	-	_	7	1	10	80	1	10	- 0	1	01	31
CLASS III. ORDER 2-Organs of Circulation.		-			_	_		-													
Totals	Q1	23	œ		9	Oi.				10 12		4	00	13	11	1	10	mi	- 30		;
1. Pericarditis	-	-			_			_		-	-	i		21	D	1	F				:

TABLE XV-CONTINUED.

										con	COUNTIES.	gi,									
CAUSES OF DEATH.	Gratiot.	Hilledale.	Houghton.	nornH	Ingham.	Ionia. Iosco	Isabella,	Jackson.	Kalamazoo.	Kent.	Кеwеепаж,	Lapeer.	Wanaleed	Гепамее.	Livingston.	Mackinac.	Жасотр.	Manistee.	Maniton	Marquette.	ловаЖ.
3. Heart Disease, etc.	Q1	=	90	· ·	9				75		10	7	*	=	1 7						
CLASS III. ORDER 8-Respiratory Organs.	_																				
Totals	1-	13	6.	=	18	13		80	13	25	45	9		14	16		1		•		4,5
2. Itaryngitis.	1	Ţ.	$\frac{\cdot}{1}$	i	+	1								1							i
3. Bronchitis	1	:	-		-						-			1	:						i
4. Pleurisy	1	:		:	;						-			- 1	:		24				i
.5. Pneumonia	9	00			11	10		-	9 91	6 05	96	10		=	1-		9			10	61
6. Asthma	1	-		:	:	:					-			1			9				:
7. Lung Diseases, etc	-	4		- :		∞					*			00	6		•				:
CLASS III. ORDER 4-Digestive Organs.						-															
Totale	20	*		-=-	10				Į-	30	11	4		=	10	9	æ			œ	æ
1. Güptritis	i	-	•	:	-	-	-	- 4		(24	- 1			7	_ <u>:</u> :	:					i
2. Bateritie	7	00	•			31	-		20	-	10	31		9	31	:	124				i
3. Peritonit's.					- :	_ :		-		_	=	_	:	-	:	:		:	:	:	Ī

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-	:	:	80	:	1	01	-	ю	1	1	91	1	24		24	01	1		
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-			-		_					- 1	- 1.						-		
*		-			1	CI		90		-	G3					•			*
	-							01		1		-			-	- 1	-	_	-
1		1	1		1	. ;			1			1							-
-	-		1-		H	Q1		10	н	01	T F	14	21		-		-		
1	-:	1	01	1	н	-		Q1	1	-	12	- 1	1		-	1	1		14
			91					62		93	•								
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1	,	4	1	•	н		_	1		-		19	-		1	-		_	:
1	1	-	(2)	4		-		91		H	-	1	1		1	1	- 1	_	
	- (- 11	- 1	-1	1	-	-1	a.			-4			_,,	- 1			
	1		1					69	-)	1	1	- 1	-	_			= 1		- 0
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			•				y Org	i						ve Or				Locol	
	į	i		į	;		rinar	:				į	:	nerati				ns of	
		:	etc.	:	:		j	Ì	:		tc.,)			-Ge			etc	Orga	
		lon	Mages,			, etc.	RDER	:	:		vel, eí		etc	DER 6		ву	eras,	TR 7-	Totals
		scept	ı Dige	e	6	laea se	I, 0			:	(Gra		lsear	0		Drop	of Ut	ORDI	
rnia	ne	assa	mac	patit	andie	Zer D	II sa	L	hritt	betes	sulu:	titis.	ney I	,	E.	rian	BB Be	Ħ	als
	:							Organs.	Organs.	Organs.	# 1								

TABLE XV-CONTINUED.

										8	COUNTIES.	IES.									
CAUSES OF DEATH.	Gratiot.	Hillsdale,	Honghton.	Huron,	Ingham.	.sinoI	Tosco.	Jeabella.	Jackson.	Kent.	Кемеерам.	Lapeer.	Leelanaw.	Lenawee.	Livingston.	Маскіпас.	Macomb.	Manistee.	Maniton.	Marquette.	Mason.
2. Joint Diseases, etc.										1 4						1	1	1	1 :	1	1
CLASS III. ORDER 8-Integumentary System.						_	-	-	-		_		_			-					
Totals	-	i		1	H	i	İ	-	00	90	-	,	-		1	1	-			1	1
1. Phlegmon	-	1		1	- 6	i	+	1	-	-	-	1	1	1	1	1	-	-	1	-	1
2. Ulcer	1	1		1	-	1	Ť	-	-	Ql	-	-	-	:		1	- !	- 1	1	1	1
8. * Skin Diseases, etc.	1	1		1	-	1	÷	1	-	1	1		-	1	1	- 1		1			1
CLASS IV. ORDER 1-Developmental Dis- eases of Children.									_		-									_	
Totals.	1	00		91	13	00	:	. 01	1	t-	17	-	01	01	_	90		-	1	-	9
1. Still-born			-	:	7	00	-	+	1	1-	18	-	01	01		01		01		1	1
2. Premature Birth and Infantile Debility	1	90		01	-	1	1	-	+	-	01		- 1	-	1	1	_	1	1	1	1
8. Cyanosis		1	41	1	-	1	1	+	1	1	-	-	:	-	-	1	-	-	1	1	1
4. Spina Bifida.	:	1		-	i	1	i	-	1		1	1	- 1		_		-	-	- 1	- 1	1
5. Other Malformations	1	-	Ť		- 6		-		-	-		-	1	1	- 1	- 1				- 1	1
6. Teething				T	-	_	-	-	—	_	01	_	_	_		_		_			40

CLASS IV. ORDER 2-Dev. Dis. of Women.			_	_			_		-			_		_	_						
Totals	-	_e	69	69	63	-	_ <u>;</u>	 :	:		4			64	4		တ		:	C4	
I, Paramenia	:		i	:	$\frac{\cdot}{\cdot}$	<u>:</u>	_ <u>;</u>	<u> </u> -	<u>;</u>	:	;			:	:	i	;	:		- [:
2. Child-birth	-	61	63	ဇာ	61	=	_ <u>;</u>	- -			<u>:</u>			C1	4	:	ಣ	-	.	C4	;
CLASS IV. ORDER 3—Developmental Dis. Of Old People.	G3	6	:	8	6	20	C1		90		138		-	<u> </u>	9		*	;	:	61	-
CLASS IV. ORDER 4—Diseases of Nutrition. 1. Atrophy and Debility		:	8		 ;	:				=	61		- 	64			ဗ	:	:	:	į
CLARS V. Onden 1-Accident or Negligence.																					
Totals	10	4	9	4	8	6		-	10	9	<u> </u>		1	30	:	:	6	-	:	ဗ	÷
1, * Fractures and Contusions	-	_	i	-	_		- ; :		-	8				24		:	_	:	:	-	-
2. Wounds	63	-	:	-				:	.					_	:	:	_	:	;		:
3. Burns and Scalds	80	-	*	-			- 	:	63		-		67	es	-	;	7	:	•	C.S	-
4, Poison	1	:	<u>:</u>	:	-	-	<u>:</u>				<u>:</u>				:	:	:	:	:	:	į
5. Drowning	:	7	69	61	:	·	$\frac{\cdot}{1}$		- 27	<u>:</u>	- 63		-8	_	:	:	63	1	:	-	į
6. Suffocation	1	:	÷		:	69	-		4	-	<u>:</u>		-:-		- :	:	_	:	-	:	-
Class V. Order 8-Homicide	1	:	<u> </u>	:	<u>:</u>	_ <u>-</u> -	_ <u>:</u> 	<u> </u>		-				_	:	:	i	:	:	i	}
Class V. Order 4-Suicide			÷		-	;	_ <u>:</u> -		-	n				:	:	į	8	i	-	:	i
Class V. Order 6-Violent Deaths, not classed above.	69	∞	-	63	4	-	64			o o	9		es		-	:	C)	-	-	80	-
Sudden-cause unknown	i	-	i	_;-	:	+	$\frac{\cdot}{ \cdot }$			_ <u>:</u>				:	:	- ;	i	:	:		;
+ Causes not specified	13	33	器	9	 #	-28	13	-8	19 2	-8 -03	 81		17 18	8	13		83	6	:	37	2

* Including 19 by railroad accidents. + Including 15 from Hemorrhage, 95 from Inflammation, and 20 from Throat Disease.

TABLE XV-CONTINUED.

										S	COUNTIES	TIES										
CAUSES OF DEATH.	Mecosta.	Menominee.	Midland.	Monroe.	Montcalm,	Muskegon.	Newaygo.	Oakland.	Осевпа.	Ontonagon.	Osceola.	Ottawa.	Saginaw.	Sanilac.	Shlawasee.	St. Clair.	St. Joseph.	Tuecola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
All causes	3	10	18	97	1 38	188	15	115	15	\$3	10	188	1 3	89	152	666	000	66	187	646	1811	13
* Specified causes	88	t-	21	950	7	119	68	506	15	8	1.	500	365	15	121	216	177	3	109	1112	1121	-3
CLASES.								-		-												
I.—Zymotic Discases.	16	4	00	20	16	13	7	8	19	XQ.	00	7	186	90	88	66	\$	65	13	19	878	3
II.—Constitutional Direases	10	-	90	49	7	18	Q1	46	œ	60	-	7	09	0	96	22	#	81	4	3	555	62
III.—Local Diseases.	ţ-	1	9	7-	95	12	15	7.	56	20	01	12	95	15	88	92	65	31	48	8	311	1
IVDevelopmental Discases	80	01	7	80	00	100	60	88	91	10	H	88	38	10	14	31	7.5	1+	130	15	178	4
VVlolent Deaths	60		හ	10	9	9	ю	11	G1	4	1	6	18	00	10	19	11	*	27	=	25	1
ORDERS.																-						
I1. Miasmatic Diseases	16	4	1	15	16	23	14	92	13	4	00	00	135	20	35	66	43	80	23	19	998	-
2. Enthetic Diseases			1	**	1	1	-	1	1	1	1	i	1	1	i	-	i	i		1	1	1
8. Dietic Diseaser	- !	-	-	i	1	-	i	-		1	-	-	-	1	i	1	1	-	1	1	9	1
4. Parasitic Diseases		1		*	ī				-	-		-	-			j		-	21	-	H	ij

II.—1. Diathetic Discases	4	-	13	90	69	1	14	8	1	11	10	7		œ.	2	0.	8	1.1	10	-
2. Tubercular Diseases	49	1	65	16	H	6)	88	20	_	88	4	00	19	3	35	18	8	88	183	=•
III1. Diseases of Nervous System	21		30	t+	14	•	88	10	_	18	98	9	=	88	19	30	=	5	170	:
2. Diseases of Organs of Circulation	*	-	15	1	23		19	CI	1		13	90	9	÷	40	-	0	2-	30	
3. Diseases of Respiratory Organs	1	1	88	10	16	C/	31	1.	1	18	30	21	2	0	2	25	5	25	3	:
4. Diseases of Digestive Organs	-	-	*	8	7	- 6	6	82	_	18	21	02	2		13	9	6	1-	2	-
5. Dischees of Urinary Organs		1	-01	+	•				:	O1	_	-1	*	49	1	8	*	*	2+	
6, Diseases of Generative Organs	-	1	1	1	1	•			1.		_	-1	-		-		0		÷	:
7. Diseases of Organs of Locomotion	1	1	1		1	1.6		1	1	1	-	1	:	. 3.	1	**	1		1	:
8. Diseases of Integumentary System		1	1	-	1	*	65		1		C+	-	:	*	01		12	*	8	į
IV1. Dev. Diseases of Children	1	1	1.	= 4	-	-	N2	- 1	:	12	8	-	-	- 00	*	21	1-	29	20	
2. Dev. Diseases of Adults			*	+	61	Yell	**		_	Q1	12	80	4	0	80	4	-	7	×	•
8. Dev. Diseases of Old People	64	_	16	24	4	-	119	-		90	18	0	10	9	12	*	0	0	38	;
4. Diseases of Nutrition	-	1	-	1	+	*		-1	1	9		-	*	40	14	1		1	3.2	;
V1. Accident or Negligence	01	01	t-	60	4	01	10	н	69		30	-	92	н	00		4	- 4	15	:
2. Battle		1	-	1	-	1	1		i	4	i	1	4		÷	- 1	- 5	. 2	***	
3. Homicide	-	1	1	:		- 4	1	4	1	. (2.		:	1		=	<u>:</u>	_;		-	:
4. Suicide	1	1	1	н	-	H	1	1,	;	-3		-	:		4			-	-	:
5. Execution	100				_	=		t			_	_: _:			7	- <u>:</u>	- <u>:</u>		-	:

* Including Still-born.

TABLE XV-CONTINUED.

									COL	COUNTIES.	ES.										
CAUSES OF DEATH.	Mecosta	Menominee, Midland.	Уошок.	Montcalm,	Muskegon.	Newaygo.	Oakland.	Осевля.	Ontonagon,	Osceola,	Ottawa.	wantgag.	Sanilac.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.
6. Violent Deaths, not classed		1		90	Q1	1 04	01		. 24	1)G	00	-	i to	_ oo	21	60	9	9	8	
Sudden Beaths (cause unascertained)	-	(1)	:	7			į			i	4.	-				Í	1	Ī	1	1	1
* Causes not Specified	90	02	*	81	11 1	10 15	352	22	-	12	10	2	11	88	55	95	15	38	88	190	
CLASS I, ORDER 1-Missmatic.				_										-				1			
Totals	16	7		22	5 51	54 14	00	10	*	02	25	135	60	85	66	43	8	33	19	998	
1. Smallpox	90	i				1	1			1		00			o.	1	1	1	1	*	1
9, Measles	i	1		1		9	65			1	73	10	1	90	7	:	*	1	2	88	1
8. Scarlatina	н	1		-	51	1 1	13			1	п	20		60	45	13	1	*	(a)	15	
4. Diphtheria	-	3		-	-	1	-		-	-	H	55	21	21	-	1	1	+	00	1-	1
5. Quinsy	-	1		- :	1	:	-			- 1	-	1	1			1	1	1	1	:	- 1
6. Croup	Ť	1	:	-	1		9		-	1	24	90	1	-		1	24	1	=	10	-
7. Whooping Cough	1	Ţ		7		-	-		-	3	20	- 21	1	-94	6	:	.09	7	1	77	1
8. + Typhus	6	00	•	21	28	on	14		-	24	51	18	ı-	22		15	7	1	97	88	
9, Erysipelas,		-		6			-				19	-		6	9			1			

Carbuncle Influenza Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dysentery Dollifum tremens Dol	10. Metria (Puerperal Fever)	***	* *	5	1.	ŧ.		1		×	+	1		7.
10 10 10 10 10 10 10 10	11. Carbuncle	1		1		·				1	:		-	-
ed. 20. 1 4 4 29 14 4 1 6 21. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12. Influenza	34		1	- 1			- 1	C4	- •	1	:		_
Ed. B. 29 4 1 4 293 14 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18. Dysentery	0)		1	60	01			3 16	10		90	6	139
# Infantum # # # # # # # # # # # # # # # # # # #	14. Diarrhea	1		÷	-	-	83	14	7		-	19	1 13	181
Lent Förer Lent Förer Las I. Order 8.—Enthetic. Lass I. Order 8.—Dietic. Lass I. Order 4.—Parasitic. Lass I. Order 4.—Parasitic. Lass I. Order 5.—Enthetic. Lass I. Order 6.— Lass I. Order 6.— Lass I. Order 7.— Lass I. Order 6.— Lass II. Order 6.— Lass III. Order 6.— Lass III. Order 6.— Lass III. Order 6.— Lass III. Order 6.— Lass II	15. Cholera Infantum			1	63	- 6		11			-(-	-	61	88
Leat Fever 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16. ‡Chollera	1		1	-	- 1		-	7	- 1	1		н	12
B 2.—Enthetic. B 2.—Enthetic. 1	17. Ague	1	4	60	г			11		- 1	1	01	-	2-
B 2.—Enthetic. In 8.—Dietic. 4.—Parasitic.	18. Remittent Fever.	1	1	1	- (Q1			-1			- 1
# 2.—Enthetic. ### 8.—Dletic. ### 4.—Parasitic. ### 1	19. Rheumstism		::-	- :	-	Qt		01			91		10	10
## 8.—Dietic.	CLASS I. ORDER 2.—Enthetic.					-		_	-		_		_	_
## 8.—Dietic. 1	1. Syphilis		4	1	- (*)				i	-	- 1	-	91	
4-Parasitic.	CLASS I. ORDER 8.—Dietic.				_								_	_
4.—Parasitic.	Totals	1	1	-		1		1			н			9
4.—Parasitic.	2. Purpura and Scurvy.	1	1	1	1.4	1					1		10	
J. Droer 4.—Parasitic.	3. Delirium tremens.	-	-0.5	1	-)	1		-)		11	(24
I. Prober 4.—Parasitic.	4. Intemperance	:		1	1.6	i		- 3			-		-	*
	CLASS I. PRDER 4.—Parasitic.		-		-						_		_	_
	Totals	4	1	1	-4	1					:		1	-
Worms	1. Thrush	1	1	1	- 1	1		. 1		,	1		4.5	
	2. Worms	_	1,		-	=; _;		_			-	:	=	

TABLE XV—CONTINUED.

											COUNTIES	TIE	<u></u>							-	
CAUS ES, OF DEATH.	Mecosta.	Menominee	Midland.	мовтое.	Montealm.	Muskegon.	Newnygo.	Oakland.	Осевпа,	Опсовадоп.	Osceola. Ottawa.	Saginaw.	Sanilac.	Shlawnseec.	St. Clair.	St. Joseph.	Тивсода.	Van Buren.	Washtenaw.	Wayne.	Wexford.
CLASS II. ORDRR 1Diathetic.				İ						1	-	1	-	_							
Totals	4	1	-	15	00	01	1	13	00	-		=	18	-	1-	6	6	æ	17	51	
. Dropsy and Anæmia	64	1	0	9	9	1	1	9	-	+	1	00	19	-	01	4	- 00	9	10	40	
. Cancer	1		- 1	9	01	63	1	J-	-	-	1	8	9		50	70	-	G1	9	6	-
Noma	1	1	1	Q4	i	1	1		04	1	;	-	9		01	1	1	1	_	G.	1
. Mortification	1		- 1	H	1	1	4	1			:			:	1	- 1	i		i	1	_ ;
CLASS II. ORDER 2Tubercular.											_				_						
Totals	9		01	35	16	=	Q1	23	12	01	-	30	41	8	19 42	35	13	88	*	185	G)
. Scrofuls	1		1	01	-	н	-	C1		4	_	œ	01		**	-	1	90	_	6	i
. Tabes Mesenterica	_		1	- (# 1	1		1		- (-		01		1	- 1		1	i	1	
. Phthisis (Consumption of Lungs)	9		61	35	12	10	-	30	7	03		56	98	8	15 41	88	18	30	45	17	- 5
. Hydrocephalus	1		- }	- 6	1	1	-	1	14	-1			н		14	04	1	- 1	1	01	
CLASS III. ORDER 1-Nerrous System.													_								
Totals	C-3		T	80	1-	14	9	88	15	00		19	36	6 1	11 28	19	on	7	53	170	1
Cephalitie	_	_:		90		*	Ē	74	cs			4	10	Q!	19	2		7		\$	

3. Apoplexy	Ī	1	1	-	1	1	69	9	F		~	04	04	. ·	-	-	1	-	*	00	<u>:</u>
3. Paralysis	1	1	i	24		- 1	- 7	4	-				63	-	_	-	-	69	80	16	:
4. Insanity	1	1	:	1	- 1		1	Q1		1				-	4	-	- 1	- :		60	į
6. Epilopsy	H	1	1	1	-1	-	1	- 1	1	-		-	-	-	- 1	-	- :	-	3	69	:
7. Tetanus	1	1	1	3.	(1)	11.40	1.	7	-	- 1		*	01	-		- 1		100	-	-	:
8. Convalsions	1	1	1	10	শ	19	1	-	G4.	1		-	23	~	29	-	59	-	4	25	i
9. Brain Diseases, etc.	H	1	60	#	01	60	90	30	9	-	-	i-	1-	-	01	21	09	80	10	43	:
CLASS III. ORDER 2-Organs of Circulation.					-		-		_	_	_	_									
Totals	78	:	-	15	- 1	21	-	13	04	-	-	20	81	_	11	0	-	9	1-	32	:
1. Pericarditis	H	1	1	1	1		- 4	-	11.00	1	_	-	_	-	_		-	•	1.6	1	i
3. Heart Disease, etc	80	:	-	12		29		+	03	-		54	21		2 10	10	-	9	3-	31	:
CLASS III. ORDER 8-Respiratory Organs.							_	-													
Totals	=	1	1	80	10	9	6	22	£=	1		18	30	2 10	10	12	92	18	24	64	i
2. Laryngitis	i	Ì	- [:	1.0	1	4	72).	-!	1	:	_	:	:	-	- 2	140	79.	7	
3. Bronchitis	i	i	i	1	3	64	-1		-	1	1		_	-	_	-	*	240		29	į
4. Pleurisy	1	İ	I	A	.)	1	· ·	-		1	1	-	_		-			У.	-+	-	:
5. Pneumonia.	F	1	1	10	*0	13	00	10	10	1	=	28	_		=	30	,	10	80	8	90
6. Asthma	i	Ť	1	83	1	-				1	-	_	_		-7		- 7			Ġş.	į
7. Lung Diseases, etc	Ì	i	1	T	1	-	1	=	-	1	_	-	2	_	•	90	80	00	60	119	:
CLASS III. ORDER 4-Digestive Organs.						-	_				_										
Totals	1	1	7	4	9	**		6	60	-	18	13	80	•	9	18	9	0	P=	355	-
1. Gastritis			- 1	=		-		_						-		•			-	+	:

TABLE XV.—Continued.

										Hom	COUNTIES	or.									
CAUSES OF DEATH.	Mecosta,	Menominee,	Midland.	Мопгое.	Montealm.	Muskegon,	Newaygo. Oakland.	Осеапа	Ontonagon.	Osceola,	Ottawa.	Saginaw.	Sanilac.	Shlawassec.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	WanbienaW.	Wayne.	Wexford.
9. Enteritis		-	1	- 60	-	=	-	-	1	-	-	2	9	*	-	9	-	7	91	17	1
3. Peritonitis	1	-	1	1	1	1	1	1	1	+		-	-	- 1	1	-	1	1	1	:	1
5. Ulceration of Intestines	1	-	-	-	1	:	1	-	1	1	1	-	1	i	i	1	1	1	-1	1	1
6. Hernia	1	-	:	i	1		-	+	1	- 1	1		1	1	-	1	-	-	1	- }	1
7. Deus.	1	1	1	1	1	i	1	1	1	1	-	1	1	1	1	i	1	-1		1	1
8. Intussusception	1	;	:	1	1	1	1	+	1	-	1	-	1	1	1	- ;	1	-1	:	1	1
11. Stomach Discases, etc	1	1	1	1	91	00	1	-	01	-		- 01	1	-	80	10	60	63	-	an	
18. Hepatitis	1	1	1	1	1	:	1	+	- 1	- !	1	1	-	1	1	-	;		-	- 1	1
14. Jaundice.	-	1	-	-	1	1	1	=	-	-		-		1	1	1	1	- 1	-	-	
15. Liver Disease, etc.	-	1	- 1	1	00	1	1	91	- 1	1		60	01	i	1	-	04	1		00	- 1
CLASS III. ORDER 5-Urinary Organs.						-		-	_	_		_									
Totals	1	1	- 1	91	**	-	1	1-	-	-		61		*	Ġ1	1	00	4	4	1.	1
1. Nephritis		1			:	-	-	1	-	-	- 1	1	1			1	1			1	- 1
4. Diabetes	-	1	1	-	-	1	****	-	1	-	-		-	-	-	1	-	93	-	1	-
5. Calculus (Gravel, etc.)	_	-		01	:	-		-	- 1	;	-	-		-			-	į	1	039	÷

6. Cystitis		*			1		:	1	3	1					:	′ :
7. Kidney Disease, etc	1	į	1	*	1		1	1	-	91					0	2
CLASS III. ORDER 6-Generative Organs.																
Totals		-	:	1	1	1	1	-	1	-	- ;					:
6-1, Ovarian Dropey		:	1	1	-	1	:	•	:	1						i
2. Disease of Uterus, etc	****	1	1	1	1			1	1	7			i			:
CLASS III. SEDER 7-Organs of Locomotion.					-	_						-				
Totals		1	- ;	1	1	1		÷	i	1	-0				:	:
1. Arthritis		1	-	1	1	-	1	1		:	- 10		_:	:	:	i
2. Joint Diseases, etc.		1	1	1	****	_		1	1	1			:			į
CLASS III. ORDER 8-Integumentary System.					_											
Totals.		į	1	20	-	****	1	01	-	1	7	29		*	œ	
1. Phlegmon	***	i	-	i	-	1	1	;	-	1	60			65	-	į
2. Ucer		1	-	-	+	-	1	7	1	1	7		-		_	. :
3. * Skin Diseases, etc.		į	- 1	51	1	****	- 1	-	-	:	1			-	_ 04	į
CLASS IV. ORDER 1—Developmental Discasses of Children.	1	17		10	1	61	15	8		4	.00		-1-		5	;
1. Still-born	1	**	- 1	-01			9	2	:	8	*		_	61	83	:
2. Premature Birth and Infantile Debility	****	01			1	1	4	+	-	ì	1		•		60	;
8. Cyanosis		:	-		1	****	-	:	1		11	;	-			i
4. Spins Biffds.							-	1		1						:

* Including 17 from Tumor.

TABLE XV-CONTINUED.

									O	O O	COUNTIES.	~ :									
CAUSES OF DEATH.	Mecosta.	Menominee.	Midland.	Monroe.	Montcalm.	Muskegon.	Newaygo. Oakland.	Осевпи.	опіопадоп.	Osceola,	Ottawa.	wantgag.	Sanflac	Shiawassec.	St. Clair.	St. Joseph.	Tuscola,	Van Buren.	Washtenaw.	Wayne.	Wexford.
5. Other Malformations.	1							1			1	-			E - X	1	1			-	
6. Teething	1	1		1		1		-	-		10	œ		-	00	01	7	1	- 1	43	_ ;
CLASS IV. ORDER 2—Developmental Discases of Women.																					
Totals	-	7	1	4		C)	m		2 2		0,	12		7	10	œ	64	1	**	14	
1. Paramenia	į	- 1		1	1			1	i		1	- 1		1		-	1	1	-	- [_ ;
2. Child-birth	-	**		4	*	œ1	-		1 10		69	19		4	10	90	61	1	4	11	:
CLASS IV. ORDER 3—Developmental Dis- cases of Old People.																					
1. Old Age	01	1		16	1+	4		10	1 1	-	90	13		10	10	12	00	6	6	35	
CLASS IV. ORDER 4Diseases of Nutrition.																					
1. Atrophy and Debility	1	- 1		1		1		_;	1		63	9		н	03	60	1	-	1	60	
CLASS V. ORDER 1-Accident or Negligence.																					
Totals	8	1	G \$	1+	හා	**			1 29		Ŧ	00	H	63	11	96	1	XO	4	2	į
I. * Fractures and Contusions						:	;	_		_	:		:	1		C.			-	4	

2. Wounds				1		1			747	-	24		:		_				:	•
8. Burns and Scalds			Ø9	80			64		-		_		G.F	-	œ				:	
4. Poison	,	-		1		:	- 1					į	- 1	-					:	
5. Drowning			21	:	20	-	00		-	**	٠.	-	-	œ		-			:	
6. Suffocation	,		00	1			65				<u>:</u>		1							
Class V. Order 3-Homicide				1		i	1				<u> </u>	:		4					:	
Class V. Order 4-Sufcide				1		14	100				24	-	ž	F			_	5	:	
Class V. Order 6-Violent Deaths, not classed above			93	21		29	CH.		21	2	•	-	1-	, and	24		ě	0	90	
Sadden—cause unknown		:	-	12	•	1	1		4.		:			4	:			-	<u>.</u>	
+ Cause not specified	ac	7	83	п	19	19 18 32	32	8	_	8	6	=	33	20	56	15 13	z.	20	8	
			-			-					İ		1			. 1	i	i		

*Including 19 by Railroad Accident. † Including 15 from Hemorrhage, 95 from Inflammation, and 20 from Throat Disease.

Remarks on Table XV, and hints designed to aid in its analysis.—The plan of classification is the same as in previous reports, being the one in most general use in this and other countries. A new and uniform system of classification, it is believed, would greatly facilitate the advance of knowledge in this direction; but while other States hold to this plan, it is only by so doing that we can make comparisons with them. No extensive comparisons between this and other States can yet be made to good advantage, because of the extremely slight attention which this subject has received in this State Of the States whose reports are at hand, Massachusetts is, perhaps, the one most favorable for this purpose, having, so far, furnished the model vital statistics, after which other States have copied to a great extent. By this classification, all deaths from specified causes are finally arranged in five classes, and the number of deaths from each, in the State, and in each county, is shown in the table. The classes are made up of orders, and the orders of the specified causes of death. The method of analysis and comparison should be the same in each case, but will, this time, only be applied to the classes, and with them, only extend to divisions of the State. The proportion of deaths from each class for 1869, and the average of all yet reported, and comparisons with the same classifications in Massachusetts, will be seen by the following:

EXHIBIT B.

Percentage of Deaths from each Class of Causes to Deaths from all Specified Causes, in this State, for the year 1869, for Two and Three-quarters years, ending with 1869, and in Massachusetts for Five years ending with 1868, and Comparisons between the same.

CLASSES.	Mass.—5 years, ending with 1868.	Mich.—2% y'rs, ending with 1869.	Mich.—1 year, 1869.	Excess in Mass. over average for 2% years in Mich.	Ex's over Mass, of av'ge for 2% years in Mich.	Ex's over Mich. in 1860, of av- crage for 5 y'rs in Mass.	Excess in Mich., 1869, over av- erage 5 years in Mars.
1—Zymotic Diseases	28,14	28.80	81.95		.66		3.81
II-Constitutional Diseases	25.08	22.27	22.05	2.81		8.08	
III-Local Diseases	26.04	81.07	29.68		5.03		3,64
IV-Developmental Diseases.	16.47	11.46	10.85	5.01		6.12	
V-Violent Deaths	4.27	6.89	5.95		2,12		1.68

The difference shown here between the two States is no greater than between different years in Massachusetts, although it is, perhaps, in a little different direction. So far as this comparison goes, it will be seen that in Massachusetts a greater proportion of deaths occurred from constitutional and developmental diseases. (What special diseases are included in these classes, can be seen by referring to the table. Consumption is the principal one in Class II, and old age and still-births in Class IV.) In this State a greater proportion of deaths occurred from zymotic and local diseases, and from violence-The difference between the two States is not as great as we shall find between different parts of our own State; as might be expected, when it is remembered that between the northern and southern parts of Michigan the difference in latitude is as great as it is between the northern part of Maine and the southern part of Massachusetts. In order to make some slight use of the very favorable conditions existing in this State for studying the causes of death, the State has been divided into eleven geographical divisions, in each of which some of the conditions are obviously different from those of

any other division. Geological and topographical differences, although of great importance, cannot, in this report, receive the time and attention deserved. The coming report of the State Geologist will doubtless contain much more of value in this connection, and will furnish material with which the future compiler of these vital statistics can, if provision be made for it, trace much more closely the conditions and causes of death in the several geographical divisions. Some other division of the State, based upon surface formation, water supply, soil, and vegetable products, should also yield valuable knowledge in connection with these statistics; in fact, there is here a vast field, as yet untilled and barren, which a very small outlay should render productive of much good to the people. The following are the divisions here adopted, and the counties embraced in each: Upper Peninsula-Includes all the counties there from which returns were received. Northwestern-Includes counties of Benzie, Grand Traverse, Leelanaw, Manistee, and Wexford. Northern-Includes Antrim, Charlevoix, Cheboygan, and Emmet. Northeastern-Includes Alcona, Alpena, and Iosco. Western-Includes Kent, Mason, Muskegon, Newaygo, Oceana, Osceola, and Ottawa. Northern Central-Isabella, Mecosta, and Midland. Central-Barry, Clinton, Eaton, Genesee, Gratiot, Ingham, Ionia, Livingston, Montcalm, and Shiawassee. Bay and Eastern-Bay, Huron, Lapeer, Saginaw, Sanilac, St. Clair, and Tuscola. Southwestern -Allegan, Berrien, Cass, and Van Buren. Southern Central -Branch, Calhoun, Hillsdale, Jackson, Kalamazoo, Lenawee, St. Joseph, and Washtenaw. Southeastern-Macomb, Monroe, Oakland, and Wayne.

All these divisions, except the three central, are bordered on at least one side by water, but there is great diversity in the relative position of the land and water. The death-rate from all causes, and the proportion of the deaths from each class of causes to the total from all specified causes, in each of these divisions, is here shown:

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EXHIBIT C.

Percentage of Deaths, from all causes, to Population, and Per Cent of Deaths from each Class of Causes to Deaths from all Specified Causes, for the State, and for eleven Geographical Divisions of the State, during the year 1869.

STATE A	HICAL	Per cent of all Deaths to Pop- ulation in 1870.	class I—Zymot- ic Diseases.	Class II—Con- stitutional Discases.	Class III—Local Diseases.	Class IV—Developmental	Class V-Vio- lent Deaths.
State		.775	81.95	22.05	29.68	10.35	5,95
Upper Peninsula D	ivision	.991	40.72	10.86	25.83	12.67	10,40
Northwestern		.882	87.09	17.74	28,22	8.06	8.06
Northern		.914	28.88	15.55	87.77	11,11	6,66
Northeastern		.795	44.18	11.68	11.68	20.98	11.68
Western		.778	84.64	16.60	82.94	10.58	5,92
Northern Central		.706	86.47	28.52	28,52	8.28	8,28
Central		.726	80.02	25.41	80.28	8.79	5,51
Bay and Eastern		.799	86.18	19.68	25.04	11,92	7.15
Southwestern		.689	31.88	24.48	30.19	7.72	5,75
Southern Central		.685	29.11	24.80	81.51	8,39	6.17
Southeastern		.942	30.77	21.52	29.64	18.28	4.82

There is here shown to have been during the year 1869 no very marked difference in the mortality from all causes in these several divisions. Between the one having the greatest and the one having the least mortality, there was, however, a difference of .257 of one per cent, or a little less than twenty-six in ten thousand.

In calculating the percentage of each class, the deaths from specified causes only were used. The number of such deaths in the State was 7,863, as will be seen at the head of Table XV. The percentage of deaths from each class to this whole number in the State is first given in Exhibit C. /It will at once be seen that in the Upper Peninsula the proportion of the several classes was in marked contrast to that of the whole State,—the proportion of zymotic diseases being about 9 per cent greater

than the average; of constitutional diseases, about one-half the average; of local diseases, about 4 per cent less; developmental diseases, about 2 per cent more, and of violent deaths, nearly twice the average in the State. The division most dissimilar to the average was the Northeastern, where, as will be readily seen from the exhibit, there was no correspondence whatever with the rest of the State in any class of diseases.

The facts appear to be demonstrated that were anticipated when these divisions were planned, viz: That, as the climatic and other conditions were different in each division, the apparent causes of mortality were different, and there is a certain correspondence of the results in localities having similar conditions. Although the task is a long one, and only a glimpse is given here, the way is perfectly plain by which we may, if we choose, search out the localities where the least number die from any given disease, and those suffering from that disease may thus be enabled to seek the most favorable places. Not only this, but the conditions existing in situations where the greatest number of deaths occur from given diseases may be ascertained, and possibly controlled, or at least avoided. For instance, we find that in the Upper Peninsula in 1869 the proportion of deaths from constitutional diseases, such as cancer, consumption, scrofula, etc., was only about one-half the average for the State; while, on the other hand, the proportion of such diseases as measles, scarlatina, typhoid fever, dysentery, and cholera infantum exceeded the average. This is a favorable showing for the Upper Peninsula, so far as the natural conditions are concerned, for a great proportion of the deaths from this latter class of diseases might, with proper knowledge and effort, be prevented. The excess of violent deaths was probably connected with the occupations of the people, and need not affect those who go there for other than mining or dangerous employments. Whether or not this was an exceptional year remains to be seen. To which of the diseases in each class was due the reduction or increase of its proportion, there does not remain time to examine; but the table ncludes the data by means of which the facts can be determined. and the manner of doing this, by percentages and comparisons, has been indicated.

Exhibiting by Sex, by Months, and by Age, in periods of years, the Registered Number of Deaths from Specified Causes during the year 1869 (Still Births included).* TABLE XVI-CAUSES OF DEATH-ALPHABETICAL ARRANGEMENT.

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		. GI of 01	272	181	141	1
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		October.	874	9146	424	41
		September	1194	621	567	9
		August,	1068	268	498	69
	mi.	Auly.	189	358	828	9
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	X 0.	May.	652	844	307	-
		April.	112	366	845	*
		Матср.	101	405	355	1
		February.	261	817	241	00
		January.	486	722	207	64
		SEX.	Totals	Male	Femule	Unknown

*See Note which follows this Table.

TABLE XVI-CONTINUED.

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XVI-
TABLE
TA

													=	-	DEATES.	TH														
				2	MONTHS.	E	•							~	SEX.	1		CATARS OF DEATH						AG	AGES.					
SEX.	January.	Pebruary.	March.	.fhqA	May.	Jane.	-Link	August.	September	October.	Мочетрет	December.	Unknown.	Males.	Females.	.пковмп.	Total,		Under 5.	5 to 10.	10 to 15.	15 to 20.	.08 03 02	.01 to 40.	40 to 20.	50 to 60.	.07 03 08	.08 of 07	50 and over	Тпкпомп,
Males	- 1	- ;	- :	1	-	-	-	-	-:	- 1	-	-	=	01	:	- 1	_ ;	Cleer of Intestines		1	- 1	- 1	_ 1	. ;	03	1	1	. ;	1	1
Pemales .	;	-		1	+	1	1	+	-	+	1	1	+	1	-	1	-		1	1	-	:	1	:	3	- ;	1	1	1	1
Males	26	49	8	98	37	88	4	259	1:	8	94	4	F-	100	1	1		Unknown	489	18	60	0.	18	13	0,	15	64	1.6	8	55
Females .	84	83	1.	46	18	88	6	99	82	13	89	4	00	1	59.4		1	,,	838	10	9	14	252	98	13	19	14	o.	*	\$
пкиомп	-	-	1	1	i	1	F	di	4	+	:	-	a i	1		19	18 1148		10	-	1	;	1	1	- 1	- 1	:	1	1	1-
Females .	:	T	1	*	-	1	-	-	+	1	-	1	1	1	0	-	-	Uterus Disease	-	1	1	-	-	- 1	91	C)	1	1	;	1
Females .	1	1	1	1	1	1	-	-			+	+		1	-	1		Uterus, Prolapeus of	-	- (1	-	ţ	3	1	1	-	-	- 1	1
Females .	1	-	-	1	Ť	1	+	1	- 1	-	+	+	+	1	-	1		Tterns, Tumor of	1	1	1	;	1	-	1	-	1	-	1	1
Males	H	G	10	1.	0	0	9	6	150		+	10	-	8	1	1	i	Whooping Cough	13		1	- 1	-	- !	1	1	-	1	1	1
Females .	O1	ic	9	*	-	ø	1-		11	9	*	10	+	1	8	1	158		78	. 3	1	1	1	**	1	-	1	1	1	1
Hales	4	-	Ø1	1	1	1	F	+	1	1	- 1	10	- 7	n	Ţ	- 1	1	Worms	8	91	1	:	1	1	1	1	1	1	1	1
Pemales	1	- ;	-	1	:	1	1	-	+	1	' ;	-	+	1	10		10		2	i	1	1	i	1	-	1	-	1	1	1
Malos	1	1	1		1	T	i	1	1	1	T	-	17	-		10		Wound, in army	-	1	1.1	1. 1	"	1.1	1 () 1		-	1

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Note.—Still-births are included throughout this Report in every case when speaking of deaths from all causes, or all specified causes. Abortions are probably not reported as stillbirths. It is believed to be mainly those who have reached about the full term, and in many cases so reported the child was rarely born alive, but with not sufficient vitality to maintain a separate existence. The returns for 1869 show several cases reported still-born, where, in another column, the age is given as a few hours, or even one day in some cases. But if they were correctly reported born dead, except for some cause they would still be living, and while the study of the causes of death by the professional man can be accomplished as well in this way as in the other, there seems no good reason for allowing them to disturb the harmony, and confuse or mislead the general reader by being counted in one place and excluded in another.

Table XVI contains so many things worthy of study and remark, that no attempt will be made to do justice to the subject. Certain diseases seem to be confined to one period of life, and some to others; some are more fatal at one season of the year, and others at different seasons. Aside from the diseases known to be necessarily peculiar to one sex, there are others in which one or the other sex suffers much the most severely, the reasons for which remain to be ascertained. A few of the specified causes are far from specific, but are given as possibly in a slight degree better than unknown. This is the case with "Inflammation," which, of course, gives no very definite idea of the cause of death. Many reported "Congestion," etc., help to swell the number printed "Unknown," which amounts to 1,143, or 12.49 per cent of the whole number of deaths. It is to be hoped that this proportion may, in future, be greatly reduced as the supervisors become more familiar with the subject and interested in the work.

The most important of the causes of death specified in this table will receive some attention in connection with the tables following.

TABLE XVII.

Order of Succession of Fifteen Principal Causes of Death, showing Number of Deaths from Each Cause, Percentage to Population, Persons Living to One Death, and Percentage to Deaths from All Causes, for the year 1869.

FIFTEEN CAUSES PRODUCING GREATEST MORTALITY IN 1869.	Number of Deaths.	Percentage to Population, 1870.	Persons Living to One Death.	Percentage to Deaths from All Causes.
1. Consumption	1,288	.104	956	18.48
2. Typhoid Fever	487	.087	2,698	4.77
8. Pneumonia	427	.036	2,762	4.66
4. Old Age	310	.026	3,804	8,88
5. Diarrhes	295	.025	3,997	3.29
6. Scarlatina	252	.021	4,680	9.75
7. Heart Disease	252	.021	4,680	9.75
8. Fever	248	.021	4,755	2,71
9. Dropsy	246	.020	4,794	2,68
10. Dysentery	286	.020	4,997	2.58
11. Cephalitis	226	.019	5,218	2.47
12. Brain Disease	204	.017	5,879	2.28
13. Apoplexy and Paralysis	185	.015	6,875	2,02
14. Casualty	/ 176	.014	6,701	1,92
15. Whooping Cough	158	.013	7,465	1.79
Totals	4,885	.414	241	58,41
All Causes	9,145	.775	123	100.00

Four thousand eight hundred and eighty-five deaths, or a little more than one-half of all reported, were said to have resulted from the fifteen causes named in Table XVII. Consumption heads the list, as usual, and caused the death of as many as resulted from the three next highest causes put together, and rather more than one-eighth of all the deaths reported. Besides the several facts shown in this table, the subject will be passed on for further examination.

Typhoid Fever caused the next highest number, but only a little more than one-third of that charged to consumption. Old Age is fourth in the order, and it would seem to be cause for congratulation that, while the death-rate from all causes was low, so large a proportion of the deaths were due to the natural decay of old age. Theoretically, with man's superior wisdom and capabilities for ascertaining the conditions essential to life, and his power of control over those conditions in his immediate surroundings, all other modes of death ought, perhaps, to be prevented. Practically, the facts are, that during the year 1869 only a little over three per cent of all the deaths in the State were attributed to this cause.

Diarrhea and Dysentery will receive additional attention. The geographical distribution of each disease in this State during the year 1869, will be seen by studying Exhibit D.

EXHIBIT D.

Number of Deaths from Diarrhea and Dysentery in Eleven Divisions of the State, Persons Living to One Death from each Disease, and Per Cent to Deaths from All Causes, during the year 1869.

			D	IARRHI	EA.	DY	SENTE	RY.
STATE A		SIONS.	Number of Deaths, 1869.	Persons Living to One Death.	Per Cent to Deaths from All Causes.	Number of Deaths, 1869.	Persons Living-to One Death.	Per Cent to Deaths from All Causes.
State			205	8,997	8.22	236	4,997	2.58
Upper Peninsula Di	ivisio	n	5	6,785	1.68	7	4,525	2.85
Northwestern		-	5	8,608	8,14	7	2,574	4.40
Northern	**		0	a7,541	0.00	1	7,541	1.44
Northeastern	1+		9	782	16,07	-2	8,519	8.57
Western	**		58	2,119	6.02	28	4,011	3.18
Northern Central	44		0	a18,445	0.00	6	2,240	6.81
Central	**		16	14,289	.96	42	5,443	2,52
Bay and Eastern			38	3,956	3.16	33	4,555	2.74
Southwestern	-44		9	18,010	1.11	51	2,295	6,31
Southern Central	**		20	13,801	1.05	86	7,667	1,90
Southeastern	-		140	1,586	6,90	28	9,851	1.18

a Persons living-no deaths reported.

There is shown to have been a very great difference in the mortality from Diarrhea in the several divisions, ranging from one death to fourteen thousand inhabitants, up to one death to every seven hundred and eighty-two persons,—the proportion to all deaths, from less than one per cent, in the Central, up to sixteen per cent in the Northeastern division. The Central division, the Southwestern, and the Upper Peninsula, had much less than the average mortality from this disease. The Northeastern, Southeastern, and Western divisions had more than the average mortality, in the order named. The counties included in each division can be seen by turning to page 150.

From Dysentery, the mortality was more uniformly distributed than from Diarrhea. This disease proved most fatal in some places where Diarrhea was least so. The order of greatest proportional mortality in divisions having more than the average, was, Northern Central, Southwestern, Northwestern, Northwestern, and Western. There was less than the average proportion of deaths from Diarrhea in the first two of these divisions. The least number of deaths from Dysentery occurred in the Southeastern, Southern Central, Northern, and Central divisions, in the order named.

The three Central divisions of the State were most exempt from both diseases, except that in the Northern Central the greatest mortality from Dysentery occurred, but where there was not a death reported from Diarrhea.

Fever, Dropsy, and Brain Disease are not very definite causes of death. The number opposite the first named should, if it were possible, be distributed through the various diseases of that nature. The second may, perhaps, cause death, although it is not properly a disease, but an indication and result of disease of the heart, liver, or kidneys; while the third mentioned may include any or all of the diseases affecting the brain. But nothing more definite can be stated of them here. The duty of obtaining the specific information rests with those

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who first collect the statistics. Apoplexy and Paralysis were, for this table only, counted together, because the latter is generally a result of the former.

Casualty includes those reported as follows: Killed by falling trees; by falling from wagon; in a well; by a fall; by horses, cows, and mules; by bursting of millstone; by circular saw; between logs; in mine; by caving of well; boiler explosion; explosion of fire-works; by whirlwind. And one from each of the following: Choked by tin whistle; over-lifting; over-work; drinking ice water; snake bite, and bee sting. This last person was over one hundred years old, and is included in Table VIII.

It is only by percentage, or some proportion of the population, that a correct idea of the death-rate can be obtained. Tables XVIII and XIX show this in the State, divisions, and counties, for all causes, for each of the four causes producing the greatest number of deaths during the year 1869, and for the extremely old and young.

Without reflection, it might be thought that the number of deaths from old age, and of those aged seventy and over, would closely correspond, but it will be seen that less than one-half of the deaths at seventy and over were attributed to old age. These two headings were placed side by side to facilitate comparisons.

The two sets of columns of deaths of old and young were put in partly to show the influence of general causes of death in the several divisions and counties, with the impression that such unfavorable conditions would in this way be sooner detected, as they would prove fatal to those least able to withstand them, and thus include a greater proportion of persons at the two extremes of life.

The order of greatest mortality from Consumption in the divisions of the State was, Southeastern, Central, Southern Central, Southwestern, Northwestern, Northern Central, Bay and Eastern, Northern, Western, Northeastern, and Upper

Peninsula. The order from Pneumonia was, Upper Peninsula, Northern, Western, Southwestern, Southeastern, Northwestern, Central, Southern Central, Bay and Eastern, Northern Central, and Northeastern. The opinion has prevailed to some extent, and, without the knowledge gained through statistics it might be expected, that when the conditions are such as to cause deaths from Pneumonia (inflammation of the lungs), there is greater danger from Consumption; but it will be seen that between these two diseases there was a correlation of quite a different kind; that in several divisions where there was more than the average mortality from Pneumonia, there was less than the average from Consumption, and vice versa. This correlation holds true in five of the eleven divisions, in one it is equal, and in five it does not hold. In the Southeastern division, where the greatest proportion of deaths resulted from Consumption, the per cent of deaths from Pneumonia was only .038, while the average was .036. An extremely slight reduction would have made the correlation hold in this case. In the Central division, where the next greatest number of deaths occurred from Consumption, the per cent of deaths from Pneumonia was precisely the average; so that the least possible reduction of the proportion would have established the correlation in a majority of the divisions. In general terms, and for all practical purposes, it may be considered as so far established. The following questions, then, come fairly before us: Are the conditions which tend to cause death from these two diseases similar, as has been by some supposed? Are they simply different, or are they in some way opposite or antagonistic? These statistics, if properly collected, studied, and compiled, will answer these important questions definitely. So far as can well be done in one year, ·the answers are given in this report, as regards the conditions of age, sex, season, and geographical distribution. The last subject has been examined by divisions in Table XVIII, and can be studied by counties in Table XIX. Of the twenty-one counties in which the percentage of deaths from Consumption was above the average in the State, ten were below, and eight were above the average from Pneumonia, two were equal, and

Consumption, Pneumonia, Typhoid Fever, Old Age, d of those Aged as stated to Deaths from all Causes,

OLD	AGE.		ALL A	GED 7	0 AND	OVER.	ALL	AGED	Unde	R 5.
Per Cent to Population.	Persons Living to one Death.	Per Cent to Deaths from all Causes.	No. of Deaths.	Per Cent to Population.	Persons Living to one Death.	Per Cent to Deaths from all Causes.	No. of Deaths.	Per Cent to Population.	Persons Living to one Death,	Per Cent to Deaths from all Causes.
.026	3,804	8.88	764	.064	1,548	8,24	8,915	.881	301	42.81
.008	11,225	1.08	8	.008	11,225	1.03	190	.564	177	63.97
.011	9,008	1.25	10	.055	1,801	6.28	91	.505	196	57.28
.018	7,541	1,44	6	.079	1,256	8.69	40	.534	188	57.97
.042	2,346	5.35	8	.042	2,846	5.85	82	.454	219	57.14
.024	4,011	8.18	58	.051	1,986	6.59	411	.865	270	46.75
.029	3,361	4.21	5	.087	2,689	5,26	85	.260	384	86.84
.025	3,857	3.54	151	.066	1,518	9.08	628	.272	866	87.45
.028	4,175	2.99	59	.089	2,546	4.90	567	.877	265	47.17
.025	3,908	8.71	76	.064	1,589	9,41	841	.291	343	49.20
.022	4,881	8.88	207	.074	1,888	10.94	578	.205	477	80.56
.087	2,655	3.99	186	.086	1,156	9.16	987	.485	229	46.20



OLD	AGE.		ALL	AGED	70 AND	OVER.	Aı	L AGE	D UNDI	ER 5.
Percent, to Pop- ulation.	Persons living, to one Death.	Percent, todeaths from all causes.	No. of Deaths.	Percent, to Pop- ulation.	Persons living, to one Death.	Percent, to deaths from all causes.	No. of Deaths.	Percent, to Pop-	Persons living, to one Death.	Percent, to deaths
.021 .082	4,598 8,111	3.41 3.88		.059	1,692 8,111	9,26 8,88	1 84 28	.181 .261 .789	760 882 185	100.0 40.9 76.66 80.00
.013 .012	7,856 7,950 8,510	1.96 1.72 4.65	7 5 2 20	.081 .081 .091 .057	8,152 8,180 1,092 1,750	4.57 4.81 10.00 9.80	8 62 49 14 94	.831 .280 .808 .641 .268	801 855 824 156 872	40.56 42.24 70.06 48.79 87.01
.019 .018	8,510 8,748 5,167 5,276 2,197	1.65 2.58 4.00	16 26 15 1	.060 .071 .071 .057 .045	1,640 1,891 1,406 1,724 2,197	8.83 9.59 7.50 10.00 11.11	67 100 94 2 8	.255 .276 .445 .116 .187	891 861 218 862 782	86.90 47.00 20.00 88,88
.026	8,814	3.50	15	.065	1,525	8.77	67	.294	341	89.18
.015 .085 .022 .011 .028	6,298 2,826 4,448 8,929 8,546	2.72 5,26 2.38 2.44 4.09	9 4 83 4 6 29	.035 .831 .097 .090 .088 .091	2,797 402 1,027 1,110 2,943 1,098	4.66 10.00 14.47 9.52 7.89 18.08	77 27 76 18 81 78	.805 2,229 .224 .405 .174 .245	827 44 446 246 548 406	89.89 67.50 88.88 42.85 88.27 85.18
088 085 018 063 022 022	8,017 2,809 5,585 1,588 4,479 4,510 5,844	5.88 8.89 2.12 8.00 8.57 8.68 2.16	3 17 12 2 18 23	.083 .067 .048 .068	8,017 1,487 2,306 1,588 2,004 1,889	5.88 7.85 5.10 8.00 8.29 8.80	80 17 92 96 8 12 70 111	.576 .187 .868 .846 .252 .267 .198 .845	178 582 274 288 895 878 515 288	65.04 83.38 89.87 40.85 82.00 42.85 82.25 40.07 86.01
025 018 021 019 081	5,888 4,576 5,074 8,228	3,20 2,27 3,28 4,58	9 8 84 20	.065 .042 .065 .074 .108	1,525 2,872 1,525 1,842 966	7.20 6.81 12.40 15.26	121 49 25 85 48	.240 .228 .546 .186 .222	485 188 586 447	39.20 56.81 31.02 82.82
050	1,972	5,98	86	.180 .016	789 6,074	15.88 2.08	76 31	.275 .510	361 195	82.47 64.58
018 030 035	7,491 8,266 2,822	1,32 2,94 4,76	2 2 4	.013 .061 .078	7,491 1,688 1,411	1.82 5.88 9.52	88 16 16 5	,587 ,489 ,288 ,264	170 204 852 878	67.17 48.52 88.09 50.00
030 058 052 026 013 046 018 038	8,821 1,717 1,987 8,724 7,294 2,152 7,229 2,895	4.00 6.61 8.28 2.89 1,75 7.88 1,42 8,68	1 86 18 4 4 84 2 1	.080 .130 .095 .026 .054 .088 .027 .088	8,321 737 1,048 3,724 1,528 1,202 3,611 2,895	4.00 14.87 15.29 2.89 7.01 14.10 2.85 8.08	94 94 27 71 87 68 42 17	.204 .210 .878 .199 .476 .507 .166 .581 .586	474 292 502 209 172 601 171 170 442	28,00 38,84 31,76 51,44 64,91 28,21 60,00 51,51 60,00
080 088 084 024 016 044 021 081 021	8,882 2,992 2,997 4,212 6,189 2,222 4,488 8,208 4,605 3,721	\$.87 2.92 7.85 3.24 2.00 6.00 8.08 4.81 8.61 2.48	13 18 5 19 10 28 9 22 88 80	.048 .048 .034 .091 .027 .086 .065 .076 .091 .067	2,050 2,161 2,912 1,097 3,688 1,159 1,528 1,310 1,090 1,488	5.55 4.05 7.85 12.83 8.84 11.50 9.09 11.75 15.26 6.10	6 118 249 80 52 189 70 84 69 67 699	.225 .442 .630 .205 .249 .377 .262 .247 .289 .161 .586	942 225 156 485 401 265 880 403 417 618 170 248	50.42 56.08 44.11 58.76 46.48 85.00 84.84 86.89 26.90 52.54
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the remaining one had not population enough to show. In 27 counties the proportion of deaths from Pneumonia was greater than the average for the State; of this number, nineteen had less than the average mortality from Consumption. This subject has been studied in four slightly different ways,-of counties having more than the average mortality from Consumption what number had less than the average from Pneumonia; of those having less than the average from Consumption, what number had more than the average from Pneumonia; and in the same ways, taking Pneumonia first. The result is, that of the fifty-nine counties returned, in ten the conditions were such that the questions could not be positively answered,—in some cases the percentages were equal to the average for the State, and in the others the population was small, and no deaths reported from one or the other disease. Of the remaining forty-nine counties, the correlation holds in twenty-nine, and in twenty it does not.

EXHIBIT E.—CORRELATION OF

Number and Percentage of Deaths of Males and Females, at
different Periods of Age, from Consumption.

·		Nu	(BER.		Percentage of whole number Deaths from consumption.		SR	GE OF XES. ex exc	
AGR.		. es.	own.		tage Dea		es.	!	ess.
	Males.	Females.	Unknown.	Total.	Percen number con	Males.	Females.	Males	Fe- nales
Under 5	56	54	1	111	9.03	50.90	49.09	1.81	
5 to 10	18	2		15	1.21	86.66	13.83	78.66	
10 to 15	6	26	ļ	82	2.59	18,75	81.25		62.50
15 to 90	34	62		96	7.78	35.41	64.58		29.17
20 to 80	118	200		313	23.88	36.10	68.89		27.79
80 to 40	96	117		218	17.27	45.70	54.29		8,59
40 to 50	69	78		142	11.58	43,59	51.40		18.2
50 to 60	64	58		117	9.48	54.70	45.29	9.41	
60 to 70	59	47		105	8.51	55,98	44.76	10.47	
70 to 80	84	26		60	4.86	56.66	48.33	18.88	
80 and over	7	2		9	.72	77.77	22.22	55.55	
Unknown	18	7		20	1.62	65.00	85.00	80.00	
Total	568	669	1	1,288	100.00	45.69	54.80		6.61

CONSUMPTION AND PNEUMONIA.

Number and Percentage of Deaths of Males and Females, at different Periods of Age, from Pneumonia.

	N	UMBER		Percentage of whole number Deaths from Pneumonia.	PER	CENTA	GE OF	THE
AGE.		*		Dea enm			Exc	ess.
	Males.	Females.	Total.	Percent number Pa	Males.	Females.	Males	Fe- males
Under 5.	194	109	288	54.56	58.21	46.78	6,48	
5 to 10	6	5	11	2,57	54.54	45.43	9.09	
10 to 15	4	4	8	1.87	50.00	50.00		
10 to 90	4	6	10	2.84	40.00	60,00		20.00
20 to 80	4	18	22	5.15	18.18	81.81		68,63
80 to 40	12	6	18	4.21	66.66	33.88	88,88	
40 to 50	17	10	27	6.82	62.96	87.03	25.93	
50 to 60	22	18	85	8.19	62.85	87.14	25.71	
60 to 70	92	11	88	7.72	66.66	88.88	88,88	
70 to 80	- 9	10	19	4.44	47.57	72.49		4.80
80' and over	4		4	.98	100.00		100.00	
Unknown	6	1	7	1.68	85,71	14.28	71.48	
Total	234	198	427	100.00	54.80	45,19	9,61	

EXHIBIT F.—CORRELATION OF Number and Percentage of Deaths of Males and Females, by Months, from Consumption.

		Num	BER.			:	PERCE	ntage	
MONTHS.		ać .	j.		age.	1		Ex	cess.
	Males.	Fcmales.	Unknown.	Total.	Percentage.	Males.	Females.	Malee.	Fe- malea.
January	23	84		37	4.62	88.96	61.01		28.06
February	88	81		69	5,59	55.07	44.92	10.15	
March	44	52	 	96	7.78	45.68	54.16	ļ	8.88
April	54	58		112	9.08	48.21	51.78		8.57
May	57	65		122	9,89	46.72	58.27		6.55
June	51	59		110	8.92	46.86	58.68	 	7.27
July	44	52		96	7.78	45.88	54.16		8.83
August	46	59		105	8.51	48.80	56.19		12.39
Scptember	58	78		181	10.62	40.45	59.54		19.09
October	49	68		111	9.00	43.20	56.79		13.59
November	84	52		86	6.97	89.58	60.46		20.98
December	70	65	1	136	11.02	51.85	48.14	3.61	
Unknown	1	1		2	.16	50.00	50.00		
Year 1869	568	669	1	1,283	100.00	45.69	54.30		8.61
					8.38				

CONSUMPTION AND PNEUMONIA.

Number and Percentage of Deaths of Males and Females, by Months, from Pneumonia.

:	1	NUMBE	R.			Perce	NTAGE.	
MONTHS.		l <u>.</u>	<u> </u>	age.		l .	Exc	ees.
	Males.	Females.	Total.	Percentage.	Males.	Females.	Males.	Fe- males.
January	16	19	85	8.19	45.71	54.28		8.57
February	84	80	64	14.98	58.12	46.97	6.15	
March	42	80	72	16.86	58.88	41.66	16.67	
April	84	28	62	14.51	54.88	45.26	8.57	
May	19	21	40	9.86	47.50	52.50	 	5.00
June	9	7	16	8.74	56,25	48.75	12.50	
July	6	5	11	2.57	54,54	45.45	9.09	
August	18	8	21	4.91	61.95	88.04	28.81	
September	10	9	19	4.45	52.63	47.86	5.27	
October	8	5	8	1.87	87.50	62.50		25.00
November	21	9	80	7.02	70.00	80.00	40.00	
December	26	21	47	11.00	55.81	44.69	10.62	
Unknown	1	1	2	.46	50.00	50.00		 .
Year 1869	284	198	427	100.00	54.80	45.19	9.61	
				8.88				

The subject can be studied in connection with age and sex in Exhibit E. The order of greatest mortality from these diseases, by periods of age, is very different; placed side by side they agree in only one particular, that of having the least number of deaths during the period of age over eighty years. Studied as before, out of the eleven periods of age, the correlation holds in four, and lacks one death of doing so in the fifth.

As regards sex alone, the correlation is quite perfect, the excess of deaths of females from Consumption being 8.61 per cent, and of males from Pneumonia 9.61 per cent. (Excess of males from all causes, 5.39 per cent.)

With sex in connection with age, it holds in three cases. In three cases, also, there was an excess of deaths of one sex from one disease, and of the opposite sex from the other disease; and in one period an excess from one disease, and an equal number of each sex from the other.

Exhibit F shows relations to each disease of conditions of seasons, and of sex at different seasons. With season alone, the correlation holds in just one-half the months. The same is true of sex in connection with season.

There is another way in which this subject may be studied, and that is by taking the average proportion of the deaths of the sexes from all causes—5.39 per cent more males than females—and finding out in how many cases the proportion is greater or less from Consumption, and the reverse from Pneumonia. Doing so with sex by periods of age, we find the excess in opposite directions in four cases out of eleven; with sex by months, in seven cases out of twelve.

To sum up, Consumption and Pneumonia were, in a majority of cases, distributed throughout the counties in an opposite manner. This correlation holds as regards sex and season, but does not fully hold with age as at present, in this Report, divided by periods, although there was demonstrated to be a great difference, falling a little short of opposition.

As the last of the report now goes to press, there does not remain time to continue the study of Tables XVIII and XIX, or to notice Table XX, but it is hoped that they will prove valuable by contributing somewhat to the general stock of knowledge, especially concerning the one great cause of death, Consumption.

TABLE XX—CONSUMPTION.

Showing, by Months, the Occupation, Age, Sex, and Conjugal Condition of all who Died from Consumption during the year 1869.

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#### AN ACT

To Provide for the Begistration of Births, Marriages, and Deaths, being Act No. 194, Session Laws of 1867, approved March 27, as amended by Act No. 125, Session Laws of 1869, approved April 3.

SECTION 1. The People of the State of Michigan enact, That sections one, three, and four of an act entitled "An act to provide for the registration of births, marriages, and deaths," approved March twenty-seventh, eighteen hundred and sixty-seven, be and the same are hereby amended so as to read as follows:

Section 1. The People of the State of Michigan enact, That it shall be the duty of the supervisor of each township, and the supervisor or assessor of any city or ward therein, in this State, between the tenth day of April and the first day of June, in the year eighteen hundred and sixty-nine, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, from and including April fifth, eighteen hundred and sixty-eight, to and including December thirty-first, eighteen hundred and sixty-eight, together with the facts relative thereto, as are hereinafter provided for, and shall make an accurate return thereof to the clerk of the county in which such township or city is situated, on or before the first said day of June; and for such service shall receive ten cents for each birth and death so returned by them, to be paid by the county in which such returns are made. In the year eighteen hundred and seventy, and in each and every vear thereafter, it shall be the duty of the officers above mentioned, between the tenth day of April and the first day of June, to ascertain, by actual inquiry or otherwise, of the inhabitants thereof, the births and deaths which have occurred in their respective townships, cities, or wards, during the year ending on the last day of the preceding December, and shall make the return, and receive therefor the compensation above provided for: Provided, That in the city of Detroit, the duties required by this act to be performed by supervisors and assessors shall be performed by persons appointed by the common council for that purpose; and it shall be the duty of the common council, on or before the tenth day of April, in each year, to appoint such number of persons in each ward of said city, as shall be necessary to perform said duties within the time limited by this act; and such persons shall possess all the authority conferred upon, and perform all the duties required of supervisors and assessors, by this act, within the territory assigned them respectively, by the common council, and shall receive such compensation for their services, not exceding the sum allowed by this act to supervisors and assessors, as shall be fixed by the common council, to be paid by the county of Wayne, and shall be liable to the same penalties for refusal or neglect to perform any of said duties.

SEC. 2. Every justice of the peace, minister of the Gospel, and all other persons authorized by law to solemnize marriages in this State, shall make a record of each marriage so solemnized by him; and every clerk or keeper of the records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, shall make a record of such marriage, together with all the facts relating to the same, as required by the third section of this act; and such justice, minister of the Gospel, clerk, or other person, shall, at the time such marriage is solemnized, deliver, on demand, to either of the parties so joined in marriage, as aforesaid, a certificate of such marriage, containing all the facts in relation thereto, required by said third section of this act, and shall, within ninety days thereafter, deliver to the clerk of the county in which such marriage

took place, a certified copy of such record, and, at the same time, pay to the clerk twenty-five cents for recording the same.

SEC. 3. It shall be the duty of the county clerks of the several counties in this State, on receiving the returns of such births, marriages, and deaths, to record the same at length in separate books, to be provided at the expense of the State by the Secretary of State, for that purpose, with proper indexes thereto. The births, marriages, and deaths shall be numbered and recorded in the order in which they are received by the clerk, and the record of marriages shall be indexed, using both the name of the bridegroom and bride. The record of births shall state, in separate columns, the date of the birth, the name of the child (if it have any), the sex and color of the child, the place of birth, the Christian and surname of both parents, the residence and nativity of the parents, the occupation of the father, and the date when the record was made: Provided, That in case the child has no Christian name, such name shall be obtained and reported to the county clerk in the next annual report of the supervisor or assessor, and such Christian name shall be distinctly designated in such report as the Christian name belonging to a child previously reported, and shall be properly entered by said county clerk, in the blank left for such Christian name in his book of record; and it shall be the duty of the several county clerks, on or before the tenth day of April in each year, to give to the officers required to make the said returns, lists of such children whose Christian names have not been previously reported in their respective towns, cities or wards. The record of marriages shall state, in separate columns, the date and place of marriage, the Christian and surname of the bridegroom and bride, and the maiden name of the bride, if a widow, the color, age, and place of birth of each, the residence of each at the time of marriage, the occupation of the bridegroom, and the name and official station of the person by or before whom they were married, the names and residences of at least two witnesses present at such marriage,

and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death. the Christian and surname of the deceased, the sex and color. whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records in his office, of all the births, marriages, and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

Sec. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State,

and make indexes thereto; and with such assistance as may be voluntarily rendered by any authorized committee appointed by the medical faculty of the University of Michigan, or by any regularly authorized medical society in this State for that purpose, he shall prepare such tabular statements, results and deductions therefrom as will render them of practical utility, and make report thereof, annually, to the Governor of the State, which report may be ordered published and distributed in such manner as the Legislature may from time to time-direct.

SEC. 6. Every justice of the peace, minister of the Gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars. and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

SEC. 7. Every physician, surgeon, or midwife who shall have been in attendance upon any deceased person, shall, upon ap plication of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor, a certified statement, without fee, containing the name of the disease, or cause (if

known) producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained,) from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, work-houses. alms-houses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail-vessels navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person. or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer.) in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpænaed (as provided for compelling the attendance of witnesses in justices' courts,) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of

a misdemeanor, and upon conviction thereof shall be punished therefor by fine not exceeding fifty dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not exceeding ninety days; and any person who, after being duly sworn as aforesaid, shall willfully make any false statement in relation to any birth or death, about which he is required to testify, shall be deemed guilty of willful and corrupt perjury: *Provided*, That no person shall be required to answer any question which will tend to criminate himself or herself upon any such examination.

SEC. 9. In case of the refusal or neglect by any of the officers mentioned in this act, to perform any of the duties hereinbefore required of them, or either of them, to be done and performed by any of the provisions herein contained, such officer shall be liable to a fine not to exceed one hundred dollars, and the costs of prosecution; and the prosecuting attorney in each county is hereby required to prosecute, in the name of the People of the State of Michigan, all persons in his county who shall willfully violate any of the provisions of this act; and the said supervisor or assessor of any township, city, or any ward therein, may be prosecuted for a misdemeanor under this section, and, upon conviction, punished as therein provided for.

SEC. 10. Sections three thousand two hundred and thirteen, three thousand two hundred and fourteen, three thousand two hundred and fifteen, and three thousand two hundred and sixteen, of the compiled laws of eighteen hundred and fifty-seven, be and the same are hereby repealed.

SEC. 2. That there shall be added to said act a new section, to stand as section eleven, to read as follows:

SEC. 11. The several supervisors and assessors of the townships, villages, and cities in this State, who have made any returns of births and deaths to the county clerk of their respective counties for the year eighteen hundred and sixtyeight, and have not received the amount of compensation as provided for in this act, shall be paid therefor at rates set forth in the preceding section. And such county clerks as have made returns of the births, marriages, and deaths to the Secretary of State for the year eighteen hundred and sixty-eight, and who have not received compensation therefor, shall be paid for the same at the rates set forth in the preceding sections.

SEC. 3. This act shall take immediate effect.

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### ERRATUM.

In page 171, line 6, for "rarely born alive," read "really born alive."

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and the date when such record was made. The record of deaths shall state, in separate columns, the date of the death. the Christian and surname of the deceased, the sex and color. whether married or single, the age in years, months, and days, the place of death, the disease or apparent cause of death, the nativity of the deceased, and the occupation, if any, and the names, residence of the parents, if known, and the date when such record was made. The clerks of the several counties shall annually, on or before the first day of September, make and transmit to the Secretary of State, a certified copy of the records in his office, of all the births, marriages, and deaths reported in their respective counties for the year ending December thirty-first, last preceding. And each county clerk shall receive for the record of each birth and death in his office three cents, and three cents for each birth, marriage, and death returned by him to the Secretary of State, to be paid by the county, and shall be compensation in full for all services required by this act to be performed by him.

SEC. 4. The Secretary of State shall prepare and furnish to the county clerks of the several counties in this State, blank books of suitable quality and size, with proper rulings and headings, to be used as books of record in carrying into effect the provisions of this act. He shall also prepare and furnish blank "forms of returns," as hereinbefore specified, accompanied with such instructions and explanations as may be necessary to insure uniformity in such returns, which blanks shall be forwarded to the several county clerks on or before the first day of March in each year; and the said county clerks shall deliver the same to the supervisors or assessors of the several townships, cities, or wards therein, in their respective counties, on or before the tenth day of April.

SEC. 5. It shall be the duty of the Secretary of State to receive the returns made in pursuance of the third section of this act, and he shall cause the same for each year to be bound together, in one or more volumes, at the expense of the State,

and make indexes thereto; and with such assistance as may bevoluntarily rendered by any authorized committee appointed
by the medical faculty of the University of Michigan, or by
any regularly authorized medical society in this State for that
purpose, he shall prepare such tabular statements, results and
deductions therefrom as will render them of practical utility,
and make report thereof, annually, to the Governor of the
State, which report may be ordered published and distributed
in such manner as the Legislature may from time to timedirect.

SEC. 6. Every justice of the peace, minister of the Gospel, and all other persons authorized by the laws of this State to solemnize marriages, and clerks or keepers of records of the meetings in which any marriage among the Friends or Quakers shall be solemnized, who shall neglect or refuse to make a record of such marriage, or to deliver to the county clerk of the county in which the marriage took place, a certified copy of such record, or who shall refuse, on demand, to deliver to the parties to such marriage the certificate thereof, as required by section two of this act, or who shall willfully make a false or fictitious entry in his record of marriages, or in the certified copy of such record delivered to the county clerk, or in the certificates of marriages delivered to the parties thereto, shall be deemed guilty of misdemeanor, and upon conviction thereof, shall be punished by fine not exceeding one hundred dollars, and in default of paying the same, shall be imprisoned in the county jail of the county in which such conviction shall be had, until said fine be paid, but not to exceed the period of ninety days.

SEC. 7. Every physician, surgeon, or midwife who shall have been in attendance upon any deceased person, shall, upon ap plication of any supervisor or assessor of the township, city, or any ward thereof, in which such death occurred, make out and deliver to such supervisor or assessor, a certified statement, without fee, containing the name of the disease, or cause (if

known) producing the death of such person; and any medical attendant who shall neglect or refuse to give such statement, or who shall willfully make a false statement in relation to such death, shall, for such offense, be liable to pay a fine of not less than ten nor more than fifty dollars, and the costs of prosecution, which fine the said supervisor or assessor is hereby required to sue for and collect, in his official character.

SEC. 8. It shall be the duty of each supervisor or assessor to obtain the facts in relation to births and deaths within his township, city, or any ward therein (not otherwise obtained,) from the heads of families, the keepers, overseers, or superintendents of asylums, hospitals, jails, prisons, work-houses, alms-houses, houses of correction, and similar institutions, the keepers of hotels, public and private boarding-houses, and the masters or chief officers of steamboats and sail-vessels navigating any of the waters of this State, and touching at any port of entry therein, in which such births or deaths occurred; and if either of the above named persons shall refuse to give such information, then the same shall be obtained by such supervisor or assessor from any person having a knowledge of the facts in relation to such birth or death; and if the supervisor or assessor shall have reason to believe that any person. or persons willfully misrepresented or concealed any facts relative to such birth or death in his township, city, or any ward therein, which he cannot otherwise obtain, he may examine such person or persons on oath (which oath such supervisor or assessor is hereby empowered and authorized to administer.) in relation to any birth or death within his township, city, or any ward therein, of which such person or persons may have any knowledge or information; and if any person, after being duly subpoenaed (as provided for compelling the attendance of witnesses in justices' courts,) by such supervisor or assessor, for the purposes aforesaid, shall neglect or refuse to appear before such officer, or, appearing, shall refuse to be sworn and testify in relation to such matter, he shall be deemed guilty of



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